



LOGOS Development Management Pty Ltd

Detailed Site Investigation

28-30 Burrows Road
St Peters, NSW

26 October 2022

63126/142,245 Rev 3
JBS&G Australia Pty Ltd

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Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Areas of Environmental Concern
AHD	Australian Height Datum
ASRIS	Australian Soil Resource Information System
ASS	Acid Sulfate Soils
BTEXN	Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene
CLM Act	Contaminated Land Management Act
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DBYD	Dial Before You Dig
DO	Dissolved Oxygen
DP	Development Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
Eh	Redox Potential
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESA	Environmental Site Assessment
ESLs	Ecological Screening Levels
Ha	Hectare
HILs	Health Investigation Levels
HSLs	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
JRA	Job Risk Assessment
LEP	Local Environmental Plan
LOR	Limit of Reporting
NATA	National Accreditation Testing Authority
OCP	Organochlorine Pesticides
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- and polyfluoroalkyl substances
PID	Photoionisation Detector
POEO Act	Protection of Environment Operations Act
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percentage Difference
SAQP	Sampling Analytical and Quality Plan
SCID	Stored Chemical Information Database
SWMS	Safe Work Method Statement
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
UST	Underground storage tank
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) has been commissioned by LOGOS Development Management Pty Ltd 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 47601708) for the proposed flight training centre at 28-30 Burrows Road, St Peters (the site).

This report comprises a Detailed Site Investigation (DSI) completed at the site. The site is legally identified as Lot 2 DP 212652 and Lot 15 DP 32332 and occupies a total area of 7,961 m².

The site is currently occupied by two warehouse buildings and hardstand areas for vehicle parking and deliveries. A previous investigation (SES 2020)¹ reported that the warehouse buildings were used as part of a mechanics workshop operation that includes spray booths and a truck wash. Underground storage tanks (USTs) were reported within the carpark areas at multiple locations, where corresponding soil and groundwater was identified to be impacted with petroleum hydrocarbons. In addition, fill based soils were reported to contain asbestos impacts.

JBS&G understand that the site is proposed to be used for the construction of the Sydney Flight Training Centre. The proposed facility enables pilots and flight crews to undertake periodic testing to meet regulatory requirements by simulating both aircraft and emergency procedural environments. The Project seeks consent for the construction and operation of the new flight training centre.

Based on the findings of this investigation and subject to the limitations presented in **Section 14**, JBS&G concludes the following:

- Groundwater monitoring wells were installed at five locations to assess the extent of site related impacts within groundwater as well as risks to downgradient receptors (both human and environmental). The existing five groundwater monitoring wells were also sampled to characterise current groundwater conditions for a wide range of contaminants of potential concern (COPCs). Medium to heavy chain petroleum hydrocarbon (TRH) impacts were reported at various locations across the extent of the site as associated with fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) as well as surface oil staining in the south-eastern portion.
- The highest hydrocarbon concentrations were reported in the south-eastern portion at JBS_MW4, where TRH >C₁₀-C₄₀ was reported at a concentration of 3.4 mg/L. The concentration exceeds the solubility limit of 2.0 mg/L (NEPC 2013) which indicates the potential presence of light non-aqueous phase liquids (LNAPL) impacts within proximity to the location.
- All other constituents within groundwater (including heavy metals, chlorinated hydrocarbons, PFAS) were reported at concentrations either below detection limits or not considered to pose a risk to on or off-site receptors and therefore do not require further assessment and/or management.
- Results from a sub-slab vapour investigation that included the installation of 42 probes reported contaminant concentrations below laboratory detection limits or the adopted guideline values for the assessment, thus indicating that the identified petroleum hydrocarbon impacts within site soils and groundwater as well as other potential volatile contamination sources underlying the site, do not pose an unacceptable health risk for the proposed development.

¹ *Due Diligence Contamination Assessment, 28-30 Burrows Road, St Peters NSW, Sullivan Environmental Sciences, 25 August 2020 (SES 2020).*

- Soil investigations completed herein and historically, identified the presence of fill across the extent of the site at depths ranging from 0.3-0.9 m bgs. The fill comprises of gravelly sand with ash, slag, brick, concrete. Asbestos was reported at three locations and likely extends across all fill based soils at the site, given the presence of building and demolition wastes in all site fill. Isolated PCB impacts were reported in shallow fill to the south of the central portion of the site.
- Based on the results of this assessment it is considered that the shallow gravelly sand fill-based soils encountered as part of this investigation comprise non-acid sulfate soils (ASS). However, the saturated underlying sands (at a depth of >2 m) comprise potential acid sulfate soils (PASS) and will require management during future construction activities if works were to result in the disturbance of these materials.
- A Remedial Action Plan (RAP) will also be required to be prepared for the site redevelopment in order to address remediation/management of:
 - Asbestos impacted fill (present at depths ranging from 0.3-0.9 m) that is likely present across the site based on the results from SES (2020) and the observation of building and demolition wastes within fill across the extent of the site.
 - Isolated PCB impacts within fill materials in the north-western portion of the site.
 - The removal of all fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) in accordance with the UPSS Regulation² to allow for the restoration of background groundwater quality to the extent practicable.
- Should the remediation strategy comprise on-site containment of asbestos and PCB impacted fill and residual hydrocarbon impacts remain (following the removal of on-going source materials), a long-term environmental management plan (LTEMP) will be required.

² Guidelines for implementing the POEO (Underground Petroleum Storage Systems) Regulation 2019 (December 2020) (UPSS Regulation).

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) has been commissioned by LOGOS Development Management Pty Ltd 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 47601708) for the proposed flight training centre at 28-30 Burrows Road, St Peters (the site).

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The site is currently occupied by two warehouse buildings and hardstand areas for vehicle parking and deliveries. A previous investigation (SES 2020)³ reported that the warehouse buildings were used as part of a mechanics workshop operation that includes spray booths and a truck wash. Underground storage tanks (USTs) were reported within the carpark areas at multiple locations, where corresponding soil and groundwater was identified to be impacted with petroleum hydrocarbons. In addition, fill based soils were reported to contain asbestos impacts.

JBS&G understand that the site is proposed to be used for the construction of the Sydney Flight Training Centre. The proposed facility enables pilots and flight crews to undertake periodic testing to meet regulatory requirements by simulating both aircraft and emergency procedural environments. The Project seeks consent for the construction and operation of the new flight training centre.

This assessment has been developed in general accordance with NEPC (2013⁴) and guidelines made or approved by the NSW Environment Protection Authority (EPA) and relevant Australian Standards.

1.2 Objective

The objectives of the investigation are to characterise potential contamination at the site and assess its suitability for the proposed uses, or to make recommendations to enable such assessments to be made in the future.

1.3 Scope of Works

The following scope of works was undertaken for the assessment:

- 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 detailed inspection within accessible areas 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;
- A soil investigation comprising the installation of five boreholes to characterise site soils within accessible areas for the COPCs;
- The installation and subsequent sampling of five new and five existing groundwater monitoring wells as part of a groundwater investigation at the site;
- The installation and subsequent sampling of forty sub-slab vapour probes;

³ *Due Diligence Contamination Assessment, 28-30 Burrows Road, St Peters NSW, Sullivan Environmental Sciences, 25 August 2020 (SES 2020).*

⁴ *National Environmental Protection (Assessment of Site Contamination) Measure 2013.* National Environment Protection Council, 2013 (NEPC 2013).

- 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 documenting the methods and results of the investigation.

1.4 Proposed Development

The development plans are provided in **Appendix H**. It is understood that the client is proposing to redevelop the site for a flight training centre.

The first stage of the development will comprise the demolition of all existing above ground structures and hardstand areas in accordance with a separate Complying Development Certificate (CDC) where it is not yet confirmed whether the existing pavements / hardstand will be removed as part of construction works. The second stage of the development will comprise the construction of:

- A slab-on-grade industrial building for the purposes of a flight training centre, occupying the central and northern site extent;
- Internal carparking and roadways; and
- A 10 m landscaping setback abutting Alexandra Canal along the southern site boundary.

As such, consideration has been given to the relevant land-use of “HIL D - Commercial/industrial, includes premises such as shops, offices, factories and industrial sites” as detailed in *National Environment Protection (Assessment of Site Contamination) Measure, 1999 (as amended 2013)*, National Environment Protection Council (NEPC 2013).

2. Site Condition & Environmental Setting

2.1 Site Identification

The site location is shown in **Figure 1**, and current site layout with historic site features is shown in **Figure 2**. The site details are summarised in **Table 2.1** and described in the following sections.

Table 2.1: Summary Site Details

Lot / DP	Lot 2 DP 212652 and Lot 15 DP 32332
Address	28-30 Burrows Road, St Peters NSW
Local Government Authority	City of Sydney Council
Approximate MGA Coordinates (MGA 56)	Easting: 332131 Northing: 6245552
Previous Use	Various industrial uses
Proposed Use	Flight training centre (Industrial Training Facility)
Site Zoning	IN1 General Industrial
Site Area	7,961 m ²

2.2 Site Condition

Site inspections to evaluate current site conditions and identify any potentially contaminating conditions and/or activities were undertaken by experienced JBS&G personnel on 9 November 2021. Key observations are documented below:

- The site comprised a rectangular shaped parcel of land used for industrial purposes and was divided into two properties as outlined following:
 - 28 Burrows Road – contained a large warehouse (QMS Australia) in the western portion of the property with access from Burrows Road to the north. The warehouse was used as an outdoor furniture repair workshop and depot. The southern portion of the warehouse was previously used as a spraybooth but is currently used for the storage of outdoor furniture. A non-functioning truck wash was also present along the eastern boundary of the property and was being used as undercover storage for outdoor furniture stock.

A sump pit (previously used for waste oil storage) was located in the south-western portion of the property. The sump was in good condition (no signs of cracking etc) but there was evidence of oil staining in the base of the sump.

A sewer pump, oil water separator and pit were located in the south-eastern portion of the property. The oil water separator and pit were not in use as part of current site operations but were noted to contained residual water with a hydrocarbon odour and sheen.

The ground surface of 28 Burrows Road was almost completely covered in hardstand in which there were no obvious signs of gross contamination (significant surface staining etc). Fill points and vent pipes present on site indicate the presence of five USTs onsite previously identified by SES (2020) in the northern and southern portions of site. An additional vent pipe was observed in the north-western portion of the site (north of the warehouse) indicating the potential for an additional UST in this area. The fill and/or dip points could not be opened during site investigations to confirm the contents of the USTs.
 - 30 Burrows Road - a large warehouse that housed four tenants (two mechanic workshops, engineering business and marine mechanic workshop) was situated in the western portion of the property. Units #1 and #4 housed automotive and truck mechanic workshops that contained several car hoists. No chemicals were stored on

site with the exception of automotive engine oil and several aerosol paint tins in Units #1 and #4 and gas cylinders used for welding in Unit #3.

- The eastern portion of the property was used for storage and as a carpark for vehicles being serviced on the property. Several shipping containers used for storage were present along the south-east boundary. Scrap metal and disassembled cars were also stored in this area with significant oil staining present on the hardstand.
- The ground surface of 30 Burrows Road was almost completely covered in hardstand. Surface staining was observed throughout the carpark where cars and trucks were stored. Evidence of two USTs and the remains of a fuel bowser were observed in the north-eastern portion of the site as reported in SES (2020).

The locations of key site features are shown on **Figure 2**.

2.3 Site Geology

SES (2020) reported that the site was mapped as being underlain by Quaternary sediments characterised by peat, sandy peat and muds. Intrusive investigations reported the presence of fill to a maximum depth of 0.8 m bgs that was underlain by natural alluvial soils. The fill was reported to include gravelly sands and clays with inclusions of slag, sandstone, ash, igneous gravel, brick fragments, steel, ironstone gravel and asbestos.

2.4 Hydrogeology

SES (2020) reported that the site is mapped within an area that includes porous and highly productive aquifers. The site is located within Prohibition Area 2 of the Botany Sands Groundwater Aquifer, where abstraction of groundwater for the above purposes is banned.

SES (2020) reported site groundwater to be present at depths ranging from 1.4 to 2,2 m bgs. Site groundwater was reported to have the following characteristics:

- Electrical conductivity (EC) ranging from 538 to 668 $\mu\text{s}/\text{cm}$;
- pH ranging from 6.19 to 6.47; and
- Dissolved oxygen (DO) levels ranging from 0.4 to 1.2 mg/L.

Based on the environmental setting and site conditions reported in SES (2020), groundwater at the site is expected to comprise a shallow unconfined system and flow to the south towards Alexandra Canal.

2.5 Hydrology

The site is largely occupied by buildings or otherwise covered in hardstand and, therefore, there is limited potential for infiltration of surface water into site soils. Rainfall runoff is controlled by building/site stormwater infrastructure that is expected to discharge to Alexandra Canal to the south of the site.

3. Summary Site History

SES (2020) provides a history of the site, where a summary is provided in the sections below as based on the findings of SES (2020) as well as supplemented with additional information presented herein.

3.1 Historical Aerial Photographs

Copies of aerial photographs are included in **Appendix J**. Relevant information from the aerial photograph review is summarised below.

- **1943:** The site comprises a cleared and vacant lot. It appears levelled and likely subject to historical filling activities given its location adjacent to Alexandra Canal. Surrounding land-uses appear consistent with industrial land-uses in which it is noted that there are large areas of cleared / vacant land.
- **1955:** The site contains small warehouse/shed structures adjacent to Burrows Road. In addition, stockpiling and earthwork activities appear to be occurring on the western Lot. Further industrial development appears on surrounding properties.
- **1965:** A large warehouse structure was constructed on the eastern Lot. The balance of the site appears to be used for truck parking / storage activities Additional industrial development appears on surrounding properties.
- **1975:** The site and surrounding properties look largely consistent with the previous image.
- **1986:** A large warehouse structure was constructed along the western boundary of the site. In addition, the warehouse on the eastern Lot was partially extend to the west. The balance of the site appears to be used for truck parking and storage.
- **1994:** The site appears largely consistent with the previous image.
- **2005:** The site and surrounding properties look largely consistent with the previous image.
- **2012:** The site appears largely consistent with the previous image.
- **2022:** The site appears largely consistent with the previous image.

3.2 Council Records

A copy of the Section 10.7 Planning Certificate for the site was obtained by JBS&G from Council and is included in **Appendix I**. Relevant details are summarised below:

- The land is subject to the requirements under Sydney Local Environmental Plan 2012;
- The land is zoned IN1 General Industrial;
- The land is not declared as significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 (CLM Act);
- Has not been identified as being within an area under the Wilderness Act 1987;
- Has not been identified as land that is within an environmentally sensitive area;
- Has not been identified as a property that comprises, or on which there is, a heritage item or draft heritage item;
- The land has not been identified as being present within an Acid Sulfate Soils Map as Class 1 or Class 2;
- The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District;

- The land is not affected by a road widening or road realignment under a planning instrument;
- Has not been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003; and
- The land is not identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard.

Under the section Matters Arising under the Contaminated Land Management Act 1997, it was reported that the following information is available to Council:

- The land is not significantly contaminated land;
- The land is not subject to a management order;
- The land is not subject to an approved voluntary management proposal;
- The land is not subject to an ongoing maintenance order; and
- The land is not subject of a site audit statement.

3.3 EPA Records

A search of the EPA's public register maintained under the Protection of the Environment Operations Act (POEO) 1997 was undertaken and is included as **Appendix J**. The search identified that, for the site, there were:

- No prevention, clean up or prohibition notices; and
- No transfer, variation, suspension, surrender or revocation of an environmental protection licence. It is noted that there are several licensed activities that allow for the storage and treatment of solid (including hazardous) and liquid wastes located approximately 300 m north of the site.

A search was undertaken through the EPA's public contaminated land register and is included as **Appendix J**. The search identified that there have been no notices issued under the Contaminated Land Management Act 1997 (CLM Act) for the site.

The site has not been notified to the EPA under section 60 of the CLM Act with regards to contamination. An excerpt of the list of properties notified to the EPA is included in **Appendix J**. Review of the list of properties notified to the EPA did not identify any known nearby properties that may represent a significant contamination migration risk to the site.

It is noted that a former landfill (Alexandria Landfill at 10-16 Albert St) is present to the west of the site where it is understood that the areas subject to filling are located >250 m from the site. As such, assessment of landfill gas from this potential source is not considered warranted.

A search was also undertaken through the EPA's PFAS register of contaminated sites. Review of the list of properties notified to the EPA did not identify any known nearby properties that may represent a significant contamination migration risk to the site.

3.4 Local Searches (NSW: Loose Asbestos Fill Register)

A search of the Fair-Trading NSW Loose-fill Asbestos Insulation Register (LFAI register⁵) for the site addresses has indicated the site is not currently registered as being affected by the presence of LFAI.

⁵ <https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register> accessed 6 June 2022

3.5 Heritage Register

A search of the Environmental Planning Instrument database did not identify any items of heritage significance on the site. It is noted that the Canal wall along the southern boundary of the site is an item of heritage significance.

3.6 Safework NSW Records

SES (2020) conducted a search of the Dangerous Goods records as held by Safework NSW in which there were no records regarding the storage of hazardous chemicals at the site.

3.7 Integrity Assessment and Summary Site History

The site is situated within an industrial area that has contained factories, foundries, workshops and mills from circa 1920. Based on available information, it appears the site has been used for various commercial / industrial purposes including vehicle maintenance and storage from approximately 1955. Based on the range of sources and the general consistency of the historical information, it is considered that the historical assessment has an acceptable level of accuracy with respect to identifying the potential contaminating activities historically occurring at the site.

4. Summary of Previous Assessments

4.1 Contamination Assessment (SES 2020)

Sullivan Environmental Sciences (SES) completed a due diligence contamination assessment (DD) for the site. The scope of works included a desktop review of available background information, sampling a total of 21 soil bores, sampling a total of five groundwater monitoring wells (located in close proximity to likely USTs) and documentation of a contamination assessment report in order to assess potential health risks for future commercial/industrial use of the land and provide recommendations for additional investigations or remediation.

The following summarises the key findings of the assessment:

- At the time of the investigation, 28 Burrows Road was being used exclusively as a storage facility for taxicab vehicles, where access for intrusive investigations was limited. 30 Burrows Road contained a mechanics workshop business, engineering support business and paper roll warehouse. No further detail was provided on the historical land-uses of the site.
- Within 28 Burrows Road, evidence of up to six USTs were reported on the property. At least one of the USTs still contained fuel / liquid (approximately 1000 L) in which the tank had an estimated volume of 20 000 L. None of the tanks were being used at the time of the investigation, however, it could not be confirmed if the tanks had been decommissioned in-situ. Within 30 Burrows Road, evidence of up to two disused USTs were also identified, however the contents could not be confirmed. There were no records of Dangerous Goods licences as held by SafeWork NSW for either of the properties.
- Intrusive investigations were largely limited to outdoor areas where access was further restricted by the presence of parked cars stored across the extent of the site.
- Intrusive investigations reported the presence of fill to a maximum depth of 0.8 m bgs that was underlain by natural alluvial soils. The fill was reported to include gravelly sands and clays with inclusions of slag, sandstone, ash, igneous gravel, brick fragments, steel, ironstone gravel and asbestos.
- Petroleum hydrocarbon impacts (at levels exceeding health screening levels for vapour intrusion) were further reported in soils and groundwater in proximity of the USTs. It was considered that on the basis of no enclosed buildings were present over the areas of impact, there was no vapour risk; however, should future development place buildings over or adjacent to these areas then impacted soils would present an unacceptable human health vapour risk that would require remediation.
- Further investigation works were recommended to delineate the extent of impacts and characterise areas that were inaccessible as part of the investigation. A Remediation Action Plan (RAP) was also noted to be required to document the methods available to remediate identified contamination in those areas of concern around USTs and asbestos contaminated fill for future development purposes.

5. Data Quality Objectives

5.1 Data Quality Objectives

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

5.1.1 State the Problem

A previous investigation identified the presence of asbestos and petroleum hydrocarbon impacts in site soils and groundwater. The extent of impacts as well as potential health risks to future occupants under the proposed land-use is not known. As such, additional investigation is required to address these identified data gaps and inform future management requirements as part of the proposed redevelopment.

5.1.2 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?

5.1.3 Identify Inputs to the Decision

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

- Previous investigations and records as available for the site;
- A detailed site inspection;
- Installation, sampling and analysis of sub-slab vapour and groundwater monitoring locations (newly installed and existing) within the site;
- The sampling and analysis results from a soil investigation at the locations of the newly installed monitoring wells within the site;
- Laboratory analytical data;
- Site assessment criteria for potentially impacted media for COPCs as appropriate to potential future land uses; 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 5.1.6**.

5.1.4 Define the Study Boundaries

The study boundaries have been defined laterally as the extent of Lot 2 DP 212652 and Lot 15 DP 32332 as defined in **Figure 2**. The vertical extent of the assessment was to a maximum depth of 4 m bgs as the final depth of the deepest borehole completed for the investigation.

As a result of the project objectives, the temporal study boundaries were limited to the period of assessment works undertaken in November 2021. 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.

5.1.5 Develop a Decision Rule

The decision rules adopted to answer the decisions identified in **Section 5.1.2** are summarised in **Table 5.1**.

Table 5.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Are there any unacceptable risks to likely future onsite receptors from soils assessed as part of the investigation?	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 criteria stated above are satisfied, the decision was No. If the criteria are not satisfied, the decision was Yes.
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.
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 uses.

5.1.6 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 assessment must be appropriate to allow decisions to be made with confidence.

There are two types of decision error identified in Australia Standards (AS) 4482.1-2005 'Guide to the investigation and sampling of sites with potentially contaminated soil Part 1: Non-volatile and semi-volatile compounds.' This includes:

- a) Deciding that the site is acceptable when it actually is not; and
- b) Deciding that the site unacceptable when it is.

Limits are required to be set on each type of error presented here. AS4482.1-2005 nominates that a 5% probability of (a) and 20% probability of (b). It is noted that the application of this relationship assumes a uniform distribution of impact over the site area.

This is not the case for this site, as the site contamination is inferred to be heterogeneously distributed across the site area. This prevents the ready application of this method. The potential for decision errors are therefore required to be qualitatively estimated. Sampling plans and works have been designed to attempt to minimise potential decision errors relating to these decisions. Recommendations for management and/or future works are cognisant of the potential errors in the interpretation of site data.

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 5.2**.

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** – expresses the degree 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 5.2: Summary of DQIs

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<30% RPD
Blind duplicates (inter laboratory)	1 / 20 samples	<30% 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		-
Samples extracted and analysed within holding times.	-	<u>Groundwater</u> Organics (7-14 days) <u>Vapour (carbon sorbent tubes)</u> Organics (14 days)
Trip spike (BTEX only)	1 per sampling event	70-130% recovery
Rinsate blank	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	All samples
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples
Limits of reporting appropriate and consistent	All Samples	All samples
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples
Appropriate documentation	All Samples	All samples
Satisfactory frequency and result for QC samples	All QA/QC samples	-
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.

5.1.7 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.

5.2 Sub-Slab Vapour Assessment

A grid based sub-slab vapour assessment was completed across the extent of the site. A total of 42 sub-slab vapour locations were completed as shown on **Figure 3**.

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 the footprint of the building:

- A 16 mm diameter hole was drilled through the concrete slab at each of the locations, whereby the encountered slab thickness was typically 100-250 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 30 seconds. Gas readings were monitored until oxygen and photo-ionisation detector (PID) 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 stable 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 sampling location, a 6.0 L volume was collected using a calibrated pump at a flow rate of 200 mL/min (30 min sample time) 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 5.3**.

5.3 Groundwater Assessment

A groundwater assessment was conducted to assess the extent of the site related impacts within groundwater as well the risks to downgradient receptors (both human and environmental). The monitoring well locations are presented on **Figure 3** where it is noted that 5 additional groundwater monitoring wells were placed in accessible locations adjacent to, or downgradient of potential areas of concern (such as the sump pit, oil water separator) as well as the downgradient boundary of the site. The existing five groundwater monitoring wells were also sampled to characterise current groundwater conditions for a wide range of contaminants of potential concern (COPCs).

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 where the depth of monitoring wells were approximately 4.0 m bgs (or 2 m below encountered groundwater levels). 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, 2000, *Publication 669 Groundwater Sampling Guidelines*.

Monitoring wells were constructed using Class 18 uPVC (50mm) screen and casing. A 3 m screened interval was used in the construction of each monitoring well. A gravel filter pack was placed adjacent to the screened interval with a 0.5 m bentonite seal above. The remaining bore annulus was backfilled with soil cuttings to the ground surface. The wells were finished with a lockable cap and flush-mounted gatic cover.

Well Development

Subsequent to well construction, each newly installed monitoring well was thoroughly developed to remove fines, settle the filter pack and ensure representative groundwater samples could be collected. Well development was undertaken using an inertial pump to remove a volume of water until field-measured water quality parameters (electrical conductivity, pH, dissolved oxygen, redox and temperature) had stabilised and where possible, purged water ran clear.

Groundwater Sampling

Monitoring wells were sampled after a minimum of three days subsequent to 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 interface probe.

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

- Before and between sampling each well, the interface probe and all other non-disposable equipment (i.e. HydraSleeve weights and clips) was decontaminated in line with project/PFAS specific wash-down procedures, Decon 90 will not be used, the wash-down will involve the use of PFAS free products such as Liquinox.
- The HydraSleeve sampler comprised a flexible 3mm thick lay-flat polyethylene sleeve with a weight on the bottom and check valve on the top and was lowered into the well to the prescribed sampling depth (i.e. within the screened interval).
- The correct HydraSleeve size selection for each monitoring well was undertaken. After placement in the monitoring well, the HydraSleeve was left for a minimum of one hour to allow the water column to re-equilibrate following the minor disturbance that occurs during deployment.
- The groundwater samples were then collected by pulling the HydraSleeve up through the water column and to the surface. The recovered water sample was then decanted into the appropriate laboratory supplied sample bottles.
- Collected groundwater samples were immediately transferred to sample containers of appropriate composition (non-Teflon lined), which are pre-treated in a manner appropriate for the laboratory analysis. Groundwater samples were obtained in a manner that ensures no headspace remains in the bottles.
- Each of the sample bottles were labelled only using ball point pens with the project ID, date, sampler's initials and unique monitoring well ID (or QC sample name).

- In order to minimise exposure to sunlight, sample bottles were placed immediately into a pre-chilled ice chest, for transport to the testing laboratories.

Following the sampling for PFAS/PFOS as described above, the wells were purged and sampled using a low-flow methodology with peristaltic pump for all other constituents. Purging was undertaken to ensure the sample collected is representative of groundwater conditions. Field parameters of pH, conductivity, redox and temperature will be measured with field electrodes in a flow cell and samples obtained once the parameters stabilised such that:

- Consecutive EC readings are within 3 %;
- Consecutive Eh 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 tubing to purge and sample wells. JBS&G considers that this method is appropriate and does not result in measurable loss of VOCs when sampling at low flow rates in shallow groundwater, and provides a significantly lower risk of cross-contamination between locations due to use of dedicated materials. Non-disposable groundwater monitoring equipment was decontaminated in accordance with the procedure detailed above in between each monitoring well.

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, presence of LNAPL, DNAPL, sheens) and sampling method details were recorded.

Blind and split duplicate groundwater samples were collected at a rate of one per 10 primary samples. A trip spike (BTEX only) and rinsate blank (for non-dedicated equipment) were collected with each batch of samples.

5.4 Soil Assessment

Soil samples were collected at borehole locations advanced for the installation of monitoring wells (**Section 5.3**) in order to provide additional characterisation data for potential contaminants of concern as well as ASS.

For sites that are approximately 0.8 ha, Contaminated Sites: Sampling Design Guidelines (EPA 1995), recommends a minimum sampling density of 19 systematic locations to detect a hotspot with a diameter of 24.2 m with 95 % confidence. As such, the 19 historical borehole locations (SES 2020) were supplemented with an additional 5 borehole locations completed herein in order to appropriately characterise soil conditions at the site. It is noted that the sampling density for the assessment of acid sulfate soils exceeded the minimum number of locations required in Table 4.1 of ASSMAC (1998⁶) in which 4 locations are required for a site with an area of up to 1 ha.

⁶ *Acid Sulfate Soil Manual*, New South Wales Acid Sulfate Management Advisory Committee, August 1998 (ASSMAC 1998)

Soil samples were collected via the advancement of boreholes using a Geoprobe track mounted drilling rig. Soil samples were collected directly underneath the hardstand (if present) and then generally at 0.5-1.0 m intervals to a maximum depth of 4.0 m. 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. 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.

All non-disposable sampling equipment, including augers, were cleaned with a pressure water/detergent spray, rinsed with water and then air dried. 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 program (**Table 5.3**).

5.5 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 were required to meet JBS&G's internal QA/QC requirements.

Table 5.3: Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses (exc. QA/QC)
Sub-slab/soil vapour	42 locations	VOC 8260 – 40 samples Isopropanol (tracer) – 40 samples Field monitoring of methane, carbon dioxide and oxygen – 42 samples
Groundwater	5 newly installed monitoring wells + 5 existing monitoring wells	Heavy metals – 10 samples Volatile organic compounds (VOCs) – 10 samples Semi-volatile organic compounds (SVOCs) – 10 samples Total recoverable hydrocarbons (TRH) – 10 samples Per- and polyfluoroalkyl substances (PFAS) – 10 samples
Soil	5 locations	Heavy metals – 5 samples Polycyclic aromatic hydrocarbons (PAHs) – 6 samples TRH / benzene, toluene, ethylbenzene, xylene (BTEX) – 8 samples Asbestos – 5 samples Organochlorine pesticides (OCPs) – 5 samples Polychlorinated biphenyls (PCBs) – 6 samples PFAS/PFOS – 5 samples SPOCAS – 7 samples Toxicity characteristic leaching procedure (TCLP) for heavy metals and PAHs (waste classification) – 3 samples

6. Assessment Criteria

6.1 Vapour Assessment Criteria

Vapour concentrations in sub-slab vapour were compared against published levels as presented in **Table 6.1**, as sourced from Health based Investigation and Screening Levels (HILs and HSLs) for vapour intrusion under commercial / industrial land-use (NEPC 2013, HIL-D, HSL-D (sand, depth 0m to <1m bgs)).

Where compounds were detected in sub-slab vapour for which there are no published Australian guideline values, reference was made to screening criteria in US EPA Region 9 Screening Levels in Air (for composite workers) as adjusted by attenuation factor of 0.1 in accordance with the footnote from Table 1A(2) NEPC (2013).

Table 6.1: Vapour Sample Analytical Schedule (mg/m³)

	Limit of Reporting	Laboratory Method	NEPC (2013) HSL-D (clay, 0m to <1m bgs)	NEPC (2013) HIL-D
BTEX				
Benzene	0.02	USEPA 8260	4	-
Toluene	0.02	USEPA 8260	4800	-
Ethylbenzene	0.02	USEPA 8260	1300	-
Total Xylenes	0.02	USEPA 8260	840	-
Naphthalene	0.02	USEPA 8260	3	-
VOCs				
PCE	0.02	USEPA 8260	-	8
TCE	0.02	USEPA 8260	-	0.08
Cis 1,2 DCE	0.02	USEPA 8260	-	0.3
1,1,1 TCA	0.02	USEPA 8260	-	230
VC	0.02	USEPA 8260	-	0.1

6.2 Groundwater Assessment Criteria

Groundwater data collected on-site has been compared to guidelines provided to ANZG (August 2018⁷) for marine ecosystems protective of 95% of species and the lowest of the criteria provided to NEPC (2013) for the protection of marine ecosystems, aquatic foods, recreational uses and visual amenity as consistent with the water quality objectives for the Cooks River catchment. With respect to the assessment of recreational exposures down-gradient of the site, data has been compared to drinking water guidelines as summarised in NEPC (2013) and adjusted by an order of magnitude consistent with a recreational exposure being the most likely sensitive potential exposure pathway. Noting that the site is situated within the Zone 2 Management Zone for the Botany Sands Aquifer, in which the use of groundwater for drinking purposes is banned, the comparison of groundwater data to drinking water guidelines is considered not applicable to this investigation.

The adopted groundwater investigation criteria are listed in **Table 6.2** following.

⁷ Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, August 2018)

Table 6.2: Groundwater Investigation Levels (all units are µg/L unless otherwise shown)

	Limit of Reporting	Laboratory Method	Recreational Criteria ¹	Aquatic Ecosystem Criteria ²	HSL –Commercial / Industrial ³
METALS					
Arsenic (As V)	1.0	ICP-AES (USEPA 200.8)	100	13	-
Cadmium	0.1	ICP-AES (USEPA 200.8)	20	0.7	-
Chromium (III) ⁴	1.0	ICP-AES (USEPA 200.8)	-	27	-
Chromium (VI) ⁴	1.0	ICP-AES (USEPA 200.8)	500	4.4	-
Copper	1.0	ICP-AES (USEPA 200.8)	20000	1.3	-
Lead	1.0	ICP-AES (USEPA 200.8)	100	4.4	-
Nickel	1.0	ICP-AES (USEPA 200.8)	200	7	-
Zinc	1.0	ICP-AES (USEPA 200.8)	-	15	-
Mercury	0.5	ICP-AES (USEPA 200.8)	10	0.1	-
TOTAL RECOVERABLE HYDROCARBONS					
F1 C ₆ -C ₁₀	250	P&T GC/MS (USEPA 8020A, 8000)	-	-	6000
F2 >C ₁₀ -C ₁₆	250	P&T GC/MS (USEPA 8020A, 8000)	-	-	NL
BTEX					
Benzene	1.0	P&T GC/MS (USEPA 8020A)	10	500	5000
Toluene	1.0	P&T GC/MS (USEPA 8020A)	8000	180	NL
Ethylbenzene	1.0	P&T GC/MS (USEPA 8020A)	3000	5	NL
m-Xylene	1.0	P&T GC/MS (USEPA 8020A)	6000 (total Xylene)	75	NL
p-Xylene	1.0	P&T GC/MS (USEPA 8020A)		200	NL
o-Xylene	1.0	P&T GC/MS (USEPA 8020A)		350	NL
POLYCYCLIC AROMATIC HYDROCARBONS					
Naphthalene	0.01	GCMS (USEPA8270)	-	70	NL
Fluoranthene	0.01	GCMS (USEPA8270)	-	1	-
Phenanthrene	0.01	GCMS (USEPA8270)	-	0.6	-
Benzo(a)pyrene	0.01	GCMS (USEPA8270)	0.1	0.1	-
VOLATILE ORGANIC COMPOUNDS					
PCE	1.0	P&T GC/MS (USEPA 8020B)	500	70	-
TCE	1.0	P&T GC/MS (USEPA 8020B)	-	330	-
Cis-1,2-DCE	1.0	P&T GC/MS (USEPA 8020B)	360	-	-
Trans-1,2 DCE	1.0	P&T GC/MS (USEPA 8020B)	3600	-	-
VC	1.0	P&T GC/MS (USEPA 8020B)	3	100	-
PFAS COMPOUNDS					

	Limit of Reporting	Laboratory Method	Recreational Criteria ¹	Aquatic Ecosystem Criteria ²	HSL –Commercial / Industrial ³
PFOS	0.01	LC-MS	-	0.13 ⁵	-
PFOA	0.01	LC-MS	10 ⁶	220 ⁵	-
Sum of PFHxS and PFOS	0.01	LC-MS	2 ⁶	-	-

Notes:

1. 10 times drinking water NHMRC (2011)
2. Ecological Criteria ANZG (2018) 95% Marine Waters reliability, unless otherwise noted.
3. NEPC (2013) B1 – Table 1A(4) HSL health screening values for vapour intrusion – sand soils 2-4 m. NL: Non limiting
4. Total chromium analysis results used as an initial screening tool. Where total chromium results exceeded screening criteria, confirmatory chromium speciation was required for direct comparison to published criteria.

6.3 Soil Criteria

Soil data collected on site were compared to health-based criteria derived from:

- Health investigation levels for commercial / industrial land use (HIL-D) land-use as provided in *National Environment Protection (Assessment of Site Contamination) Measure, 1999 (as amended 2013)*;
- Soil health screening levels for vapour intrusion for TRH, BTEX and naphthalene for sand based soils, and commercial / industrial land use as provided in NEPC (2013);
- Aesthetic impacts have been assessed by on-site observations of soil staining and/or ACM and/or other anthropogenic materials; and
- PFAS National Environmental Management Plan Version 2.0. The Heads of EPAs Australia and New Zealand, January 2020 (HEPA 2020).

The health-based soil assessment criteria are summarised in **Table 6.3** and **6.4** following.

Table 6.3: Chemical Contaminants in Soil Health Based Assessment Criteria (all units in mg/kg)

	Limit of Reporting (LOR)	Laboratory Method	Health Based Assessment Criteria Commercial / Industrial (HIL-D)
METALS			
Arsenic	2.0	ICP-AES (USEPA 200.7)	3000
Cadmium	0.4	ICP-AES (USEPA 200.7)	900
Total Chromium ¹	1.0	ICP-AES (USEPA 200.7)	3600 ¹
Chromium (VI)	1.0	ICP-AES (USEPA 7189)	3600
Copper	1.0	ICP-AES (USEPA 200.7)	240,000
Nickel	1.0	ICP-AES (USEPA 200.7)	6000
Lead	1.0	ICP-AES (USEPA 200.7)	1500
Zinc	1.0	ICP-AES (USEPA 200.7)	400,000
Mercury (inorganic)	0.05	Cold Vapour ASS (USEPA 7471A)	730
TRH (sand, 0 to <1m depth)			
F1 C ₆ -C ₁₀	20	Purge Trap-GCMS (USEPA8260)	310
F2 >C ₁₀ -C ₁₆	50	Purge Trap-GCMS (USEPA8260)	NL ²
BTEX (sand, 0 to <1m depth)			
Benzene	0.1	Purge Trap-GCMS (USEPA8260)	4
Toluene	0.1	Purge Trap-GCMS (USEPA8260)	NL
Ethylbenzene	0.1	Purge Trap-GCMS (USEPA8260)	NL
Total Xylenes	0.3	Purge Trap-GCMS (USEPA8260)	NL
Naphthalene	0.1	Purge Trap-GCMS (USEPA8260)	NL
OCPs			
DDT + DDD + DDE	0.3	GCECD (USEPA8140,8080)	3,600
Aldrin + Dieldrin	0.2	GCECD (USEPA8140,8080)	45
Chlordane	0.1	GCECD (USEPA8140,8080)	530
Endosulfan	0.3	GCECD (USEPA8140,8080)	2,000
Endrin	0.1	GCECD (USEPA8140,8080)	100
Heptachlor	0.1	GCECD (USEPA8140,8080)	50
Hexachlorobenzene	0.1	GCECD (USEPA8140,8080)	80
Methoxychlor	0.1	GCECD (USEPA8140,8080)	2,500
PAHs			
Carcinogenic PAHs (as B(a)P TEQ)	0.5	GCMS (USEPA8270)	40
Total PAHs	0.5	GCMS (USEPA8270)	4,000
PCBS			
PCBs (total)	0.5	GCECD (USEPA8140,8080)	7
PFAS			
PFOA	0.005	LC-MS	50
Sum of PFHxS and PFOS	0.005	LC-MS	20

1. Total chromium results used as an initial screening tool for chromium (VI). Where total chromium results exceeded screening criteria, confirmatory chromium (VI) analysis was completed for direct comparison to published criteria.

2. NL -denotes 'Not limiting'

3. For TRH fractions – health screening levels applicable to soils at a depth of 0 m to <1 m have been applied as screening criteria to this assessment.

Asbestos in soil thresholds adopted for the site assessment are nominated in **Table 6.4** below.

Table 6.4: Asbestos in Soil Health Based Assessment Criteria (all units in % w/w)

Form of Asbestos	Health Screening Level (w/w)
	Commercial / Industrial (D)
Bonded ACM	0.05 %
Fibrous asbestos or asbestos fines ³	0.001 %
All forms of asbestos	No visible ACM for surface soil (0 – 0.1 m bgs).

Noting the presence of hardstand across extent of the site surface (with no vegetation), the assessment of ecological risks was not considered relevant to the assessment.

The assessment of acid sulfate soil conditions was completed via use of laboratory sPOCAS analysis methods with the results compared to the site acid sulfate soil action criteria published in the *Acid*

Sulfate Soil Manual (ASSMAC 1998⁸), as presented in **Table 6.5** below. Where results exceeded the site action criteria, material was considered to comprise Potential/Actual Acid Sulfate Soil.

Table 6.5: ASS Assessment Criteria

Soil Type		Action Criteria (1-1000 tonnes disturbed)		Action Criteria (>1000 tonnes disturbed)	
Texture	Clay Content (%)	Sulfur Trail (S_{pos} %) - S %	Acid Trail (TPA/TSA) mol H ⁺ /tonne	Sulfur Trail (S_{pos} %) - S %	Acid Trail (TPA/TSA) mol H ⁺ /tonne
Coarse	<5	0.03	18	0.03	18
Medium	5-40	0.06	36	0.03	18
Fine	>40	0.1	62	0.03	18

⁸ *Acid Sulfate Soil Manual*, New South Wales Acid Sulfate Management Advisory Committee, August 1998 (ASSMAC 1998)

7. Quality Assurance /Quality Control

Data quality indicators (DQIs) have been calculated as per the requirements of **Table 5.2** and are summarised in **Table 7.1** following. Laboratory reports are provided as **Appendix E**, with summarised QA/QC results presented in **Appendix F**.

Table 7.1: Summary of Quality Assurance / Quality Control Assessment

Data Quality Indicator	Frequency	Results Reported	DQI met
Precision			
Blind duplicates – soil	1/8 soil	0- 76% RPD	See discussion below
Blind duplicates – vapour (carbon tubes)	4/42	0 RPD	Yes
Blind duplicates – groundwater	1/10	0-67 % RPD	See discussion below
Split duplicates – soil	1/8 Soil	0-105 % RPD	See discussion below
Split duplicates – vapour (carbon tubes)	4/42	0 RPD	Yes
Split duplicates – groundwater	1/10	0-181 % RPD	See discussion below
Accuracy			
Surrogate spikes – soil	All samples for organic constituent analysis	61-176 % recovery	See discussion below
Surrogate spikes –vapour	All samples for organic constituent analysis	70-143 % recovery	See discussion below
Surrogate spikes – groundwater	All samples for organic constituent analysis	15-130 % recovery	See discussion below
Laboratory control samples	-	28-148 % recovery	See discussion below
Matrix spikes	-	28-148 % recovery	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	See discussion below
Method blank	All analytes	<LOR	Yes
Trip blank (soil and groundwater)	1/sampling event	<LOR	Yes
Trip Spike (soil and groundwater)	1/sampling event	Recovery within 70-130%	Yes
Field Blank	Per media and sampling event	<LOR-detects	Yes
Leak detection (Vapour)	All samples	<10% leak detection compound concentration	Yes
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 Quality Indicator	Frequency	Results Reported	DQI met
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

7.1 Discussion of QA/QC Results

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

7.1.1 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 a limited number of heavy metal and TPH/TRH fractions. The slight variations between the primary and duplicate samples is 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.

Vapour Duplicates

Analysis of blind and split duplicate vapour samples met the required analysis frequency and all RPDs were zero. Results were all reported below the laboratory limit of reporting.

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 a limited number of heavy metal compounds and TRH fractions. The differences were likely due to the relatively low level concentrations reported within the primary and duplicate pair. Overall, 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.

7.1.1 Accuracy

Surrogate Spikes

Soil, groundwater and soil vapour 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 (in each media) were reported outside the preferred range, but largely 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. Most surrogate recoveries outside the preferred range related to PFAS analysis, which have a greater acceptable surrogate recovery range.

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.

Matrix Spikes

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

acceptable range, but largely within the laboratories acceptable limits (typically between 50 and 150 % recovery) under their NATA accreditation. Therefore, matrix interference, within soil and groundwater samples, is considered not to be significant with respect to the accuracy of the dataset.

Matrix spikes are not conducted for laboratory analysis of carbon tubes.

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 %). A small number of laboratory control samples (for PFAS compounds in groundwater) were reported outside the JBS&G acceptable range, but largely within the laboratories acceptable limits (typically between 50 and 150 % recovery) under their NATA accreditation. On this basis, the limited number of laboratory control samples that were reported outside the preferred range are considered to not affect the outcomes of the assessment.

7.1.2 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. Soil sampling was conducted with the advancement of boreholes, considered appropriate for the potential site chemical contaminants. It is noted that boreholes are not the preferred method of investigation for asbestos, but, given the site was mostly paved with concrete/asphalt and operational, it was considered the only practical method for completing the assessment. Groundwater sampling was completed using a low flow bladder pump and Hydrasleeve (for PFAS) which are also considered appropriate for the potential site contaminants in groundwater. The sub-slab vapour sampling methods were considered appropriate for the media and the analytes targeted. Sub-slab vapour probes were correctly installed, sealed and leak detection was performed. The SKC Anasorb CSC tubes used were appropriate for the COPCs. Flow rate and total volume for each sample was recorded.

Laboratory Blanks

There were no reported concentrations of contaminant compounds above the laboratory LOR in the laboratory method blanks for soil, groundwater, soil vapour and indoor air analysis.

Holding Times

The extraction and analysis of all sub-slab vapour samples were completed within the recommended holding times for all analytes. The extraction and analysis of select soil and groundwater analysis slightly exceeded the recommended time for some organic constituents. However, noting the acceptable recovery rates within the trip spike samples and that the samples were appropriately preserved within the laboratory until the analysis was undertaken, the slight exceedances are not considered to affect the representativeness of the dataset.

Trip Spike

A trip spike was submitted with each batch of soil and groundwater samples. All trip spike recoveries were within the acceptable limit of 70-130 %, indicating that the adopted assessment sample preservation methods were appropriate to result in a low risk of contaminant concentration loss during transport of the samples.

Trip Blank

A trip blank was submitted with each batch of soil and groundwater samples submitted to the laboratory. There were no reported concentrations of BTEX compounds above the laboratory LOR thus demonstrating the absence of significant contaminant cross contamination issues during the temporary storage and transportation of samples analysed during this investigation.

Rinsate

Rinsate samples were collected during the soil sampling and groundwater sampling program. The reported concentration of all COPCs within the samples were below detection limits thus demonstrating that the sampling procedures did not result in the cross-contamination of samples.

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.

7.1.3 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.

7.1.4 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.

7.2 QA/QC Assessment

The field sampling and handling procedures produced QA/QC results which indicate that the soil, soil vapour and groundwater 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 soil, groundwater and soil vapour data are of an acceptable quality in order to achieve the objectives of the assessment.

8. Vapour Assessment

8.1 Sub-slab Vapour Field Observations

Sub-slab vapour probes were installed across 42 sample locations on the site. No significant odours or indicators of contamination were observed during placement of the cores for the sample locations.

Stabilised oxygen, PID, methane, and carbon dioxide readings were obtained at each sample location prior to collection of the vapour sample. The measured levels are summarised in **Table 8.1**. Elevated carbon dioxide and methane levels were identified at a few locations in proximity to the USTs, likely as a result of the degradation of the petroleum hydrocarbons in soil and groundwater – gas flow rates cannot be reliably measured from sub-slab probes (as opposed to monitoring wells) which precluded a comparison of the ground gases to EPA (2020)⁹. However, noting that the source of the methane and carbon dioxide is likely limited by the rate of breakdown of the petroleum hydrocarbon impacts (i.e. relatively slow), it is considered unlikely that these gases will be produced at a rate which may present a risk to receptors within future buildings.

Table 8.1: Summary of Field Measured Vapours / Gases at Sub-slab Vapour Probes

Sample ID	PID (ppm)	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	H ₂ S (ppm)
SV01	0	11.4	0.0	0	0
SV02	0	8.4	0.6	0	0
SV03	0	10.1	0.9	0	0
SV04	0	9.3	0.1	0	0
SV05	0	12.2	0.3	0	0
SV06	0	10.3	0.0	0	0
SV07	0	12.0	3.1	0	0
SV08	0	6.6	6.4	0	0
SV09	0	10.3	0.5	0	0
SV10	0	10.4	0.1	0	0
SV11	0	13.0	0.0	0	0
SV12	11	0.1	0.0	0	0
SV13	96	10.7	0.4	0.2	0
SV14	0	10.9	3.7	0	0
SV15	54	0.1	8.9	0	0
SV16	396	0.6	1.3	14	0
SV17	0	13.7	2.4	0	0
SV18	53	0.1	0.3	0.2	0
SV19	0	12.0	2.5	0	0
SV20	1	12.8	1.3	0	0
SV21	0	4.5	0.0	4.7	0
SV22	12	0.0	3.3	0	0
SV23	0	12.9	0.6	0	0
SV24	0	12.3	0.3	0	0
SV25	0	10.1	0.2	0	0
SV26	0	10.0	0.3	0	0
SV27	0	14.1	2.7	0	0

⁹ Assessment and management of hazardous ground gases, Contaminated Land Guidelines, NSW EPA 2020 (EPA 2020).

Sample ID	PID (ppm)	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	H ₂ S (ppm)
SV28	0	11.8	3.9	0	0
SV29	0	12.2	3.3	0	0
SV30	0	15.4	1.6	0	0
SV31	0	12.2	0.5	0	0
SV32	Flooded				
SV33	0	8.8	0.9	0	0
SV34	Flooded				
SV35	0.2	9.7	0.2	0	0
SV36	0.6	11.0	0.6	0	0
SV37	0.6	12.0	0.6	0	0
SV38	0.3	10.8	0.3	0	0
SV39	0	12.3	0	0	0
SV40	0	11.1	0.3	0	0
SV41	0.5	7.9	0.6	0	0
SV42	12	11.6	0.0	0	0

8.2 Summary of Analytical Results

All sub-slab vapour probe samples were submitted to the laboratory for VOC 8260 analysis. Summarised laboratory results are presented in **Table C**.

All sub-slab vapour results were below the laboratory detection limits or the adopted guideline values for this assessment. Of note, various petroleum hydrocarbon compounds (such as BTEX and trimethylbenzene) were reported at low concentrations at various locations across the investigation area.

9. Groundwater Assessment

The monitoring well locations are shown on **Figure 3** and installation details for newly installed wells are provided in **Appendix B**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix E**.

9.1 Field Observations

9.1.1 Groundwater Field Measured Parameters

A summary of groundwater conditions encountered during is presented in **Table 9.1** and **Table 9.2** below.

Table 9.1: Groundwater Field Physiochemical Parameters

Well Reference	Dissolved Oxygen (mg/L)	pH (units)	Oxidation Reduction Potential (mV) (vs Ag/AgCl)	Electrical Conductivity (EC) (µs/cm)	Temperature (°C)
MW01	0.08	6.56	-61	964	20.3
MW02	0.13	6.30	-25.1	773	23.0
MW03	0.27	6.53	-81	720	22.2
MW04	0.04	6.30	-68	498	21.9
MW05	1.81	6.50	-118	652	21.5
JBS_MW1	0.03	6.36	-32	598	22.8
JBS_MW2	1.30	6.48	-38	849	21.1
JBS_MW3	0.04	6.24	-23	693	21.0
JBS_MW4	Instrument Failure				
JBS_MW5	0.09	6.33	-44	497	20.2

Review of the field parameters as presented above indicates that the groundwater is slightly acidic, characterised by relatively low to moderate dissolved oxygen levels and is brackish.

Table 9.2: Groundwater Observations

Well Reference	Odour	Sheen	Turbidity	Light non-aqueous phase liquid (LNAPL)
MW01	None observed	None observed	Moderate	None observed
MW02	Hydrocarbon	None observed	Moderate	None observed
MW03	None observed	None observed	Moderate	None observed
MW04	Hydrocarbon	None observed	Moderate	None observed
MW05	Hydrocarbon	None observed	Moderate	None observed
JBS_MW1	None observed	None observed	Moderate	None observed
JBS_MW2	None observed	None observed	Moderate	None observed
JBS_MW3	Hydrocarbon	None observed	Moderate	None observed
JBS_MW4	Hydrocarbon	None observed	Moderate	None observed
JBS_MW5	None observed	None observed	Moderate	None observed

9.2 Groundwater Analytical Results

The monitoring well locations and groundwater exceedances are shown on **Figures 3** and **5** respectively. In addition, laboratory results are summarised in **Table B** in **Appendix A**. Analytical results are discussed in the following sections.

Heavy Metals

The reported heavy metal concentrations were below the adopted criteria with the following exceptions:

- Cadmium, which marginally exceeded the marine ecosystem criterion (0.0055 mg/L) at JBS_MW01 (0.012 mg/L), JBS_MW02 (0.014 mg/L) and MW03 (0.012 mg/L);
- Total chromium, which marginally exceeded the marine ecosystem criterion (0.0044 mg/L) at JBS_MW01 (0.007 mg/L) and JBS_MW05 (0.006 mg/L);
- Copper, which marginally exceeded the marine ecosystem criterion (0.0013 mg/L) at JBS_MW02 (0.005 mg/L), MW01 (0.002 mg/L), MW03 (0.002 mg/L) and MW04 (0.005 mg/L);
- Lead, which marginally exceeded the marine ecosystem criterion (0.0044 mg/L) at JBS_MW01 (0.014 mg/L), JBS_MW02 (0.018 mg/L), JBS_MW03 (0.014 mg/L), JBS_MW05 (0.005 mg/L), MW02 (0.002 mg/L) and MW04 (0.005 mg/L); and
- Zinc which exceeded the marine ecosystem criterion (0.015 mg/L) at concentrations ranging from 0.027 mg/L (MW01) to 3.1 mg/L (JBS_MW01).

PAHs

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

TRH and BTEX

BTEX concentrations were reported to be below the laboratory LOR or less than the adopted criteria in all samples with the exception of at MW02 (0.019 mg/L) which exceeded the adopted criteria protective of recreational (swimming etc) exposures.

Short chain TRH C₆-C₁₀ were reported above the laboratory LOR at MW02 (0.05 mg/L) and JBS_MW04 (0.15 mg/L). Medium to heavy chain TRH >C₁₀-C₄₀ impacts were reported at MW01 (0.2 mg/L), MW03 (0.2 mg/L), MW04 (0.5 mg/L), MW05 (1.04 mg/L), JBS_MW01 (0.2 mg/L), JBS_MW03 (0.9 mg/L), JBS_MW04 (3.4 mg/L) and JBS_MW05 (0.1 mg/L). It is noted that the reported concentration of TRH >C₁₀-C₄₀ exceeds the published solubility limit of 3.0 mg/L in NEPC (2013).

VOCs and SVOCs

With the exception of BTEX concentrations discussed above, all remaining concentrations of VOCs and SVOC were below the laboratory LOR or the adopted criteria in all samples.

Phenols

Phenol concentrations were reported to be below the laboratory LOR and the adopted criteria in all samples.

OCPs and PCBs

OCP and PCB concentrations were reported to be below the laboratory LOR or the adopted criteria in all samples.

PFAS

All reported concentrations of PFAS compounds were below the adopted criteria protective of downgradient receptors.

10. Soil Assessment

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

10.1 Field Observations

The soil investigation works comprised a total of 5 boreholes advanced via push tube and solid flight augers (SFA). Fill materials were encountered beneath the existing pavements to depths ranging from 0.3-0.9 m bgs. The fill typically comprised gravelly sand with varying levels of brick, concrete, asphalt, sandstone and glass. The fill was underlain by natural light grey and brown sand and/or clayey sand or sandy clay to the maximum depth of the investigation (4.0 m bgs).

No visible asbestos containing material was identified during the soil assessment activities. Hydrocarbon odours were noted at JBS_MW01, JBS_MW03 and JBS_MW04. In addition, sulfidic odours were observed within saturated soils during the investigation.

10.2 Analytical Results

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

10.2.1 Heavy Metals

Heavy metal concentrations in all analysed samples were reported to be below the adopted site assessment criteria in all samples selected for analysis.

10.2.2 TRH and BTEX

TRH and BTEX concentrations were reported to be below the laboratory LOR or less than the adopted site assessment criteria in all samples selected for analysis.

10.2.3 PAHs

All reported concentrations of total PAH and carcinogenic PAHs as B(a)P TEQ were below the adopted site assessment criteria in all samples selected for analysis.

10.2.4 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 with the exception of total PCBs in sample JBS_MW03 0.2-0.3 (18 mg/kg) which exceeded the adopted criterion (7 mg/kg) protective of human health. The PCB impacts at JBS_MW03 appear isolated to shallow soils (<1 m bgs) and were not identified in nearby boreholes. Noting the presence of hardstand across the site extent, current/future site users cannot be exposed to the PCB impacts in shallow soils at JBS_MW03 however, further assessment would be required to statistically determine whether shallow fill based soils at the site require formal management through the implementation of an environmental management plan (EMP).

10.2.5 PFAS

The reported PFAS concentrations were below the adopted site assessment criteria in all samples selected for analysis.

10.2.6 Asbestos

Asbestos in the form of fragments of ACM were not reported to have been observed within material at any of the sampling locations. In addition, the laboratory did not report the presence of asbestos within any of the samples selected for analysis.

10.2.7 SPOCAS

Four samples were collected from the shallow soils (<2 m) and assessed for the presence of ASS via the sPOCAS analysis method in no samples exhibited characteristics of PASS. The reported results are detailed following:

- The peroxide oxidisable sulfur (spos) ranged from 0.04-0.011% S; and
- The recorded TSA ranged from <2 to 160 mol H⁺/t.

In addition, three saturated soils (> 2m) were assessed for the presence of ASS via the sPOCAS analysis method in which two exhibited characteristics of PASS. The reported results are detailed following:

- The peroxide oxidisable sulfur ranged from 0.18-0.19 % S; and
- The recorded TSA ranged from 100 to 110 mol H⁺/t.

11. Discussion

Based on the decision making process for evaluating land-use suitability detailed in EPA (2017) and outlined in **Section 5.1.5**, the decisions required to be made in order to satisfy the objectives of the assessment are discussed below.

11.1 Are there any unacceptable risks to likely future onsite receptors from soils?

The historical soil dataset (SES 2020) was supplemented herein with representative samples of fill material and natural soils collected within accessible areas of the site been analysed for a range of identified potential contaminants of concern including heavy metals, PAHs, TRH, BTEX, OCP/PCBs, PFAS and asbestos.

SES (2020) reported TRH (C₁₀-C₁₆) impacts within site soils that exceed the generic health-screening levels in NEPC (2013) under the proposed land-use. Additional mid-heavy chain impacts were reported herein at concentrations less than the adopted criteria. The impacts appear associated with former / current fuel infrastructure as well as surface oil staining in the south-eastern portion. Based on the results of the soil vapour investigation (refer to **Section 11.4**), the petroleum hydrocarbon impacted soils are not considered to be posing an unacceptable health risk (via vapour intrusion into future buildings) under the proposed land-use. However, the soils are potentially acting as on-going source materials to groundwater impacts and may require remediation / management to allow for the restoration of background groundwater quality and off-site migration of impacts (refer to **Section 11.3**).

Asbestos was reported in fill based soils at three locations within SES (2020). Whilst no additional asbestos impacts were observed/reported herein, it is acknowledged that the advancement of boreholes is not the preferred method of investigation (due to the limited volume of material able to be inspected). However, given the existing pavement and operational nature of the site, pavement removal and subsequent test pitting was not feasible. As such, considering the observation of varying levels of building and demolition wastes in site fill, there is the potential for fill materials at the site to contain asbestos. Any asbestos impacts within site fill are unlikely to affect site suitability under the proposed land-use given the presence of hardstand across the majority of the site (thereby limiting the exposure to site soils for most users) but may require management under an EMP.

Total PCB concentrations were also reported to exceed the adopted criteria protective of human health at a single location. The impacts appear isolated to shallow soils (<1 m bgs) and were not identified in nearby boreholes. Notwithstanding, the impacts will require management in order to mitigate any potentially unacceptable risks to future site users.

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

Soil contaminant results in natural soils indicate there are likely no issues relating to local area background conditions that require consideration with respect to the suitability of the site.

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

Similar to the soil assessment, representative samples of groundwater from ten locations across the site were analysed for a range of identified potential contaminants of concern including heavy metals, PAHs, TRH, OCPs, PCBs, VOCs, phenols and PFAS.

Petroleum hydrocarbon impacts were reported at various locations across the extent of the site as associated with fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc). The greatest impact was reported in the south-eastern portion at JBS_MW4, where TRH >C₁₀-C₄₀ was reported at a concentration of 3.4 mg/L. The concentration exceeds the

solubility limit of 2.0 mg/L (NEPC 2013) which indicates the potential presence of light non-aqueous phase liquids (LNAPL) impacts within proximity to the location. Noting that the well is located near the downgradient boundary of the site and adjacent to Alexandra Canal there is the potential that dissolved petroleum hydrocarbon impacted groundwater may be migrating from the site.

Benzene impacts were reported in groundwater in the north-eastern portion at MW2 (0.019 mg/L). The reported concentration exceeds criteria protective of recreational exposures but are not considered to pose a risk to downgradient receptors, given the distance of the impacts from the downgradient boundary.

Groundwater with elevated levels of heavy metals was also reported in several monitoring wells at the site as shown in **Figure 4**. The reported concentrations are largely 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. On this basis, the elevated levels of heavy metals in site groundwater are not considered to require management.

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

Contaminant levels measured in sub-slab vapour were below the laboratory detection limits or the adopted guideline values for the assessment, thus indicating there were no volatile impacts within the sub-surface that would pose an unacceptable risk to future site receptors (via vapour intrusion).

11.5 Are there any impacts of chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may pose a management issue at the site.

11.6 Are there any aesthetic issues at the site?

Hydrocarbon odours as well as bonded asbestos impacts have been noted in site soils. However, these impacts are not considered to pose an aesthetic issue under the proposed land-use given the presence of hardstand and/or building footprint across the extent of the site.

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

The site is covered in hardstand and therefore there is a low risk that contaminants can migrate from the site through the generation of windblown dusts or surface water erosion. During future construction activities, standard dust/odour suppression practices and sediment/erosion controls will require to be implemented to minimise the risk of contaminants in soils migrating from the site when additional soils are exposed.

With respect to groundwater, elevated concentrations of TRH >C₁₀-C₄₀ were reported in monitoring well JBS&G_MW04 although no LNAPL was observed at this location. Noting that the well is located near the downgradient boundary of the site, there is potential for petroleum hydrocarbon impacted groundwater to be migrating from the site.

11.8 Is a site management strategy required?

Based on the findings of this investigation, and subject to the limitations in **Section 14**, the following actions are considered warranted as part of the redevelopment the site:

- A Remedial Action Plan (RAP) is required to be prepared for the site to address remediation/management of:
 - Asbestos impacted fill (present at depths ranging from 0.3-0.9 m) that is likely present across the majority of the site footprint as based on the results from SES (2020) and the observation of building and demolition wastes within fill across the extent of the site.

- Isolated PCB impacts within fill materials in the north-western portion of the site.
- The removal of fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) in accordance with the UPSS Regulation¹⁰ to allow for the restoration of background groundwater quality to the extent practicable.

¹⁰ Guidelines for implementing the POEO (Underground Petroleum Storage Systems) Regulation 2019 (December 2020) (UPSS Regulation).

12. Conceptual Site Model

12.1 Extent of Known Impact

12.1.1 Soil

SES (2020) reported TRH (C₁₀-C₁₆) impacts within site soils that exceed the generic health-screening levels in NEPC (2013) under the proposed land-use. Additional mid-heavy chain impacts were reported herein at concentrations less than the adopted criteria. The impacts appear associated with former / current fuel infrastructure as well as surface oil staining in the south-eastern portion. Based on the results of the soil vapour investigation, the petroleum hydrocarbon impacted soils are not considered to be posing an unacceptable health risk (via vapour intrusion into future buildings) under the proposed land-use. However, the soils are potentially acting as on-going source materials to groundwater impacts and may require remediation / management to allow for the restoration of background groundwater quality and preclude off-site migration.

SES (2020) further reported the presence of asbestos impacts within fill based soils at the site. The impacts appear to be associated with the observations of ash, slag and building demolition wastes within fill-based soils that extend across most of the site footprint to depths ranging from approximately 0.3-0.9 m. As such, it is assumed that the majority of fill based soils at the site are likely to contain asbestos that will require management and/or remediation during redevelopment of the site.

In addition, the current investigation reported isolated PCB impact within fill based soils in the north-western portion herein. The isolated impact will require further assessment and/or management during redevelopment of the site.

12.1.2 Groundwater

Medium to heavy chain petroleum hydrocarbon impacts were reported at various locations across the extent of the site as associated with fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) and surface oil staining. The greatest impact was reported in the south-eastern portion at JBS_MW4, where TRH >C₁₀-C₄₀ was reported at a concentration of 3.4 mg/L. The concentration exceeds the solubility limit of 2.0 mg/L (NEPC 2013) which indicates the potential presence of light non-aqueous phase liquids (LNAPL) impacts within proximity to the location. Furthermore, noting the well is located on the downgradient boundary of the site and adjacent to Alexandra Canal, it is considered that there is potential for petroleum hydrocarbon impacted groundwater to be migrating from the site. Additional assessment would be required to assess if the petroleum hydrocarbon impacted groundwater is posing a risk to receptors in the Canal.

The petroleum hydrocarbon impacted groundwater identified in other portions of the site does not appear to pose an unacceptable risk to future on-site receptors (based on the soil vapour results) but will require management to allow for the restoration of background groundwater to the extent practicable.

All other constituents within groundwater (including heavy metals, chlorinated hydrocarbons, BTEX) were reported at concentrations either below detection limits or not considered to pose a risk to on or off-site receptors and therefore do not require further assessment and/or management (refer to **Section 12.3**).

12.1.3 Soil Vapour

A sub-slab vapour investigation that included the installation of 42 probes across the extent of the building footprint was conducted in order to assess potential health risks (via vapour intrusion) to current/future site receptors within the building. All reported contaminant concentrations were below laboratory detection limits or the adopted guideline values for the assessment, thus indicating

that the petroleum hydrocarbon impacts in soil and groundwater as well as other potential volatile contamination sources underlying the site, do not pose an unacceptable health risk to future users of the site under the proposed land-use.

12.2 Potential Human and Ecological Receptors and Exposure Pathways

Table 12.1 summarises 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.

Table 12.1: Summary of Potential Human Exposures

Receptor	Location	Media	Potential Exposure Pathways
Existing commercial or future recreational users	Within buildings	Soils	Inhalation (vapours)
		Groundwater	Inhalation (vapours)
	Outdoor areas	Soils ¹	Inhalation (particulates) Oral Dermal
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)

¹ It is understood that the future ground surface at the site will largely comprise of hardstand which will result in limited potential human exposure pathways to underlying site soils. On this basis, the soil exposure pathways presented in Table 13.1 will only be applicable in minor areas of exposed soils.

Given that the site is primarily covered by hardstand pavements and building footprints which will remain under the proposed development, site users will largely not be exposed by direct contact to any impacts within site soils. Notwithstanding, in minor landscaped areas (if any), fill based soils will require appropriate management in order to preclude exposures to the impacts presented above.

Off-site receptors comprise the users of Alexandra Canal who may be exposed to environmental impact via a recreational exposure pathway – based on the available information, it is considered unlikely that site derived impacts are posing an unacceptable health risk to users of Alexandra Canal. Possible off-site ecological receptors are limited to impacts associated with groundwater and surface runoff water (if present) migrating from the site into Alexandra Canal.

12.3 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 COPC as either liquids or gasses.

No known service easements are located in proximity to the hydrocarbon impacts at the site. As such, migration of the petroleum hydrocarbon impacts via a preferential pathway is considered unlikely at the site.

13. Conclusions and Recommendations

Based on the findings of this investigation and subject to the limitations presented in **Section 14**, JBS&G concludes the following:

- Groundwater monitoring wells were installed at five locations to assess the extent of site related impacts within groundwater as well as risks to downgradient receptors (both human and environmental). The existing five groundwater monitoring wells were also sampled to characterise current groundwater conditions for a wide range of contaminants of potential concern (COPCs). Medium to heavy chain petroleum hydrocarbon (TRH) impacts were reported at various locations across the extent of the site as associated with fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) as well as surface oil staining in the south-eastern portion.
- The highest hydrocarbon concentrations were reported in the south-eastern portion at JBS_MW4, where TRH >C₁₀-C₄₀ was reported at a concentration of 3.4 mg/L. The concentration exceeds the solubility limit of 2.0 mg/L (NEPC 2013) which indicates the potential presence of light non-aqueous phase liquids (LNAPL) impacts within proximity to the location.
- All other constituents within groundwater (including heavy metals, chlorinated hydrocarbons, PFAS) were reported at concentrations either below detection limits or not considered to pose a risk to on or off-site receptors and therefore do not require further assessment and/or management.
- Results from a sub-slab vapour investigation that included the installation of 42 probes reported contaminant concentrations below laboratory detection limits or the adopted guideline values for the assessment, thus indicating that the identified petroleum hydrocarbon impacts within site soils and groundwater as well as other potential volatile contamination sources underlying the site, do not pose an unacceptable health risk for the proposed development.
- Soil investigations completed herein and historically, identified the presence of fill across the extent of the site at depths ranging from 0.3-0.9 m bgs. The fill comprises of gravelly sand with ash, slag, brick, concrete. Asbestos was reported at three locations and likely extends across all fill based soils at the site, given the presence of building and demolition wastes in all site fill. Isolated PCB impacts were reported in shallow fill to the south of the central portion of the site.
- Based on the results of this assessment it is considered that the shallow gravelly sand fill-based soils encountered as part of this investigation comprise non-acid sulfate soils (ASS). However, the saturated underlying sands (at a depth of >2 m) comprise potential acid sulfate soils (PASS) and will require management during future construction activities if works were to result in the disturbance of these materials.
- A Remedial Action Plan (RAP) will also be required to be prepared for the site redevelopment in order to address remediation/management of:
 - Asbestos impacted fill (present at depths ranging from 0.3-0.9 m) that is likely present across the site based on the results from SES (2020) and the observation of building and demolition wastes within fill across the extent of the site.
 - Isolated PCB impacts within fill materials in the north-western portion of the site.

- The removal of all fuel storage infrastructure (comprising USTs and associated pipes, bowsers as well as sumps and pits etc) in accordance with the UPSS Regulation¹¹ to allow for the restoration of background groundwater quality to the extent practicable.
- Should the remediation strategy comprise on-site containment of asbestos and PCB impacted fill and residual hydrocarbon impacts remain (following the removal of on-going source materials), a long-term environmental management plan (LTEMP) will be required.

¹¹ Guidelines for implementing the POEO (Underground Petroleum Storage Systems) Regulation 2019 (December 2020) (UPSS Regulation).

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



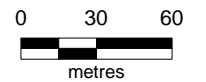
Job No: 62110

Client: Logos

Version: R01 Rev A Date 26/11/2021

Drawn By: RH Checked By: MN

Scale 1:3,000



Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
St Peters, NSW**

SITE LOCATION

FIGURE 1



- Legend**
- Approximate Site Boundary
 - Site Features
 - Oil Staining
 - Probable UST
 - Shipping Containers - Storage
 - Site Features



Job No: 62110

Client: Logos

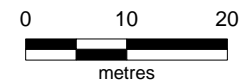
Version: R01 Rev A

Date 29/11/2021

Drawn By: RH/JZ

Checked By: MN

Scale 1:750



Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
St Peters, NSW**

SITE LAYOUT

FIGURE 2



- Legend**
- Approximate Site Boundary
 - Sample Locations**
 - Borehole / Monitoring Well, SES (2020)
 - Borehole, SES (2020)
 - + Monitoring Well, JBSG (2021)
 - ▲ Soil Vapour, JBSG (2021)
 - Site Features**
 - Shipping Containers - Storage
 - Probable UST
 - Site Features



Job No: 62110	
Client: Logos	
Version: R01 Rev A	Date 26/11/2021
Drawn By: RH	Checked By: MN
Scale 1:750	

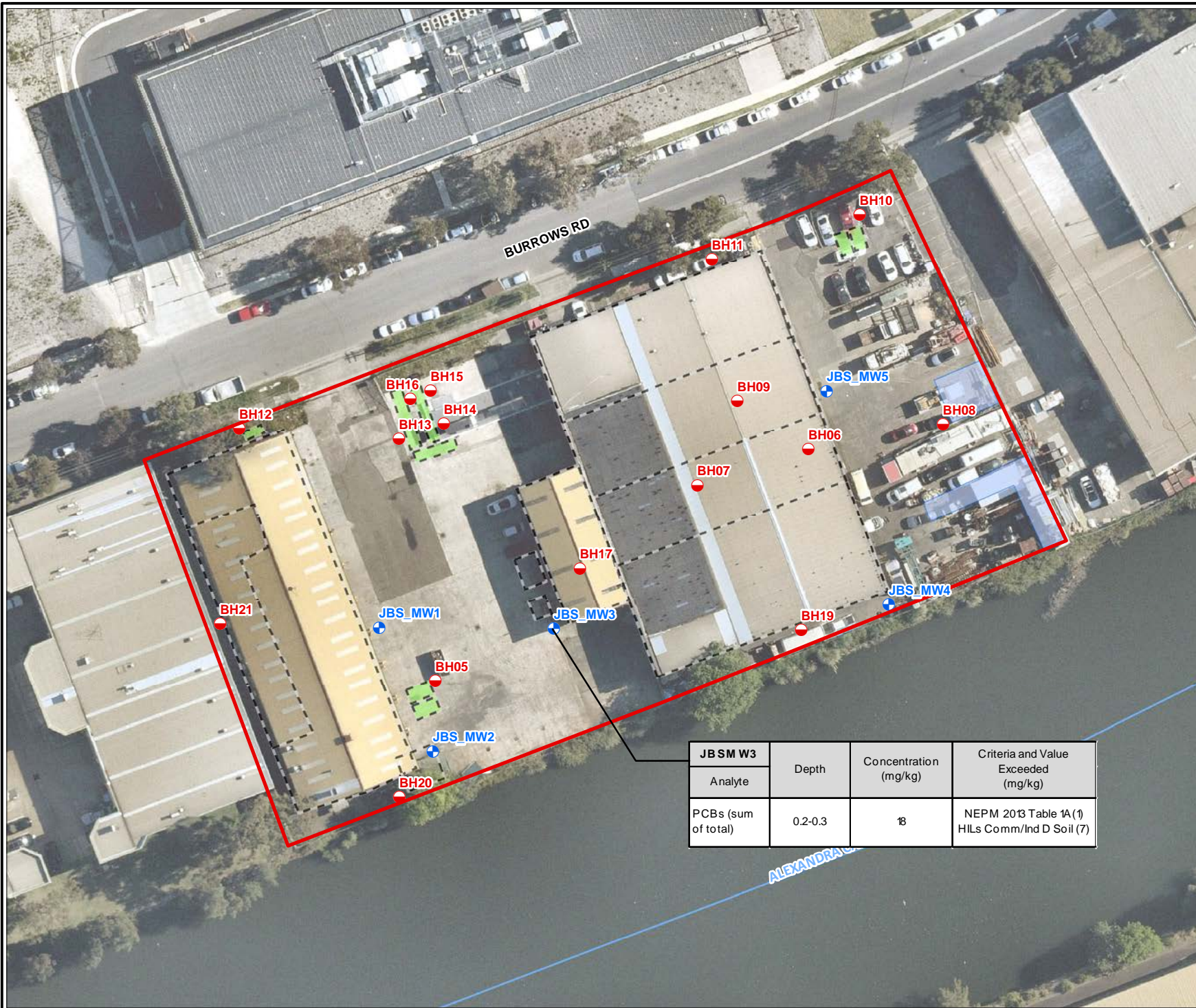
Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
St Peters, NSW**

SAMPLING LOCATIONS

FIGURE 3

File Name: N:\Projects\Logos\62110 St Peters DD\GIS\Maps\R01 Rev A\62110_03_SamplingLocations.mxd
Reference:



- Legend**
- Approximate Site Boundary
 - Sample Locations**
 - Borehole, SES (2020)
 - Monitoring Well, JBSG (2021)
 - Site Features**
 - Shipping Containers - Storage
 - Probable UST
 - Site Features



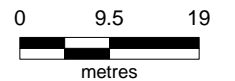
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Client: Logos

Version: R01 Rev A Date 26/11/2021

Drawn By: RH Checked By: MN

Scale 1:800



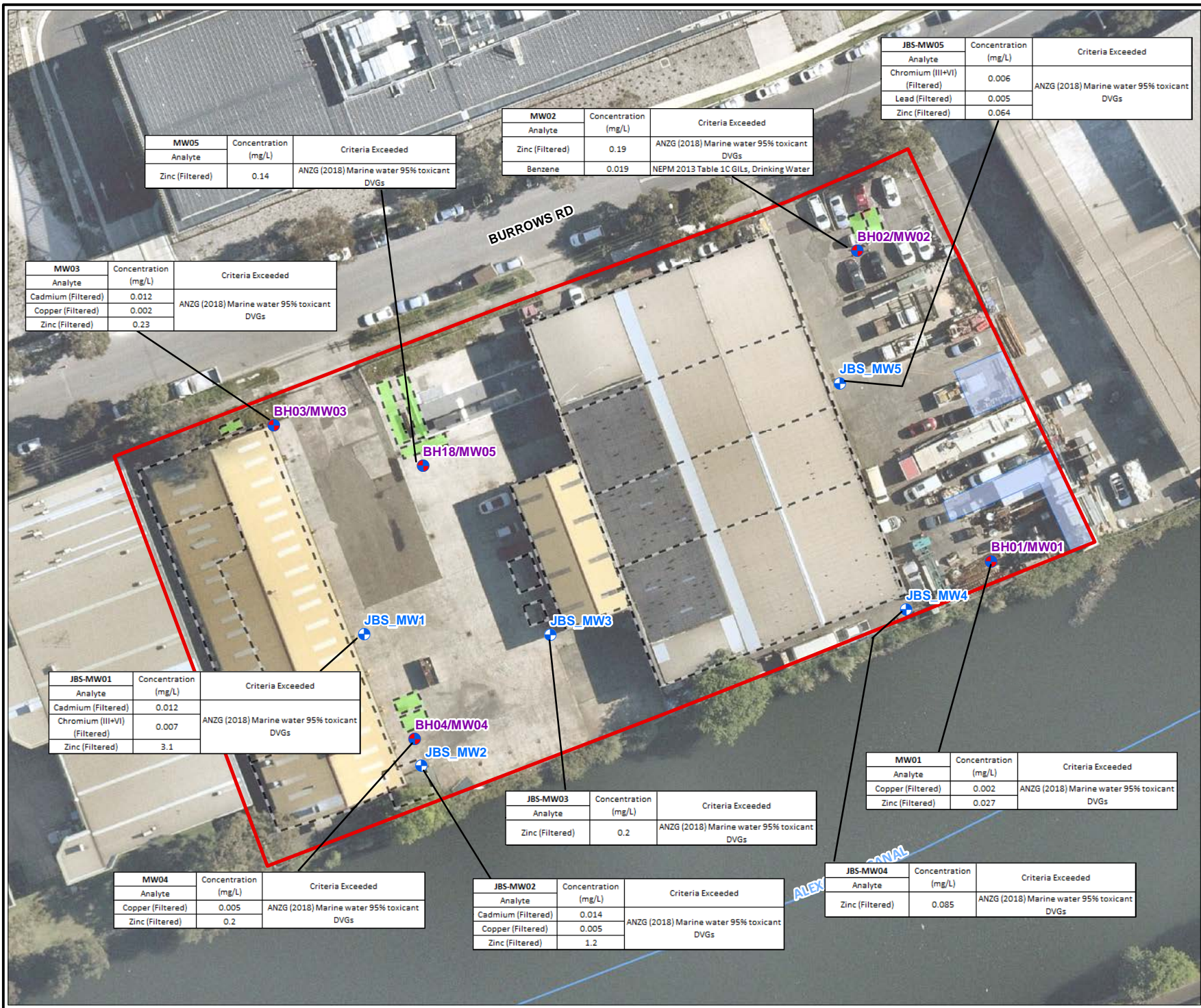
Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
St Peters, NSW**

**SOIL ANALYTICAL
EXCEEDANCES**

JB SM W3	Depth	Concentration (mg/kg)	Criteria and Value Exceeded (mg/kg)
Analyte			
PCBs (sum of total)	0.2-0.3	18	NEPM 2013 Table 1A (1) HILs Comm/Ind D Soil (7)

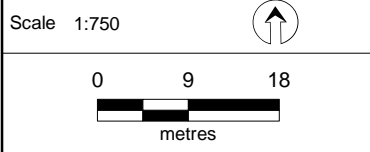
FIGURE 4



- Legend**
- Approximate Site Boundary
 - Borehole / Monitoring Well, SES (2020)
 - ⊕ Monitoring Well, JBSG (2021)
 - Shipping Containers - Storage
 - Probable UST
 - Site Features



Job No: 62110
 Client: Logos
 Version: R01 Rev A Date 29/11/2021
 Drawn By: RH/ JZ Checked By: MN



Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
 St Peters, NSW**
GROUNDWATER EXCEEDANCES

FIGURE 5

File Name: N:\Projects\Logos\62110 St Peters DD\GIS\Maps\R01 Rev A\62110_05_ExceedancesGroundwater.mxd
 Reference:

Appendix A – Summary Analytical Tables

Table A4: ASS Analytical Results

Project Number: 62110

Project Name: St Peters Due Diligence



	Liming Rate	pH (KCl)	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)	SPOS
	kg CaCO3/t	pH Unit	mol H+/t	mole H+/t	mole H+/t	pH Unit	%S
EQL	1	0.1	2	2	2	0.1	0.02
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)				18	18		0.03
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)				18	18		0.03

Field ID	Sampled Date	Lab Report Number	Liming Rate	pH (KCl)	Titratable Actual Acidity	Titratable Peroxide Acidity	Titratable Sulfidic Acidity	pH (Ox)	SPOS
JBS.MW1-1-1.1	12/11/2021	841777	2	6.8	<2	<2	<2	5.5	0.11
JBS.MW1-3-9-4	12/11/2021	841777	9	5.5	6	110	100	3	0.19
JBS.MW2-0.2-0.3	12/11/2021	841777	<1	11	<2	<2	<2	9.2	0.05
JBS.MW2-3-3.1	12/11/2021	841777	9	6.7	<2	110	110	3.3	0.18
JBS.MW3-0.2-0.3	12/11/2021	841777	<1	8.6	<2	<2	<2	7.3	0.09
JBS.MW4-0.2-0.3	12/11/2021	841777	2	6.3	3	<2	<2	4.7	0.04
JBS.MW4-2-2.1	12/11/2021	841777	1	6.4	<2	13	13	3.7	0.03

Table A5: TCLP Analytical Results

Project Number: 62110

Project Name: St Peters Due Diligence



	Heavy Metals		PAHs
	Lead	Nickel	Benzo (a)pyrene
	mg/L	mg/L	mg/L
EQL	0.01	0.01	0.001
NSW EPA (2014) TCLP1	5	2	0.04

Field ID	Sampled Date	Lab Report Number	Lead	Nickel	Benzo (a)pyrene
JBS.MW3-0.2-0.3	12/11/2021	844013	6.2	0.06	<0.001
JBS.MW5-0.2-0.3	12/11/2021	844013	0.06	-	-
QSA03 (duplicate of JBS.MW2-0.2-0.3)	12/11/2021	844013	-	-	<0.01

Table B: Groundwater Analytical Results

Project Number: 62110
Project Name: St Peters Due Diligence



	Metals & Metalloids							TPHs (NEPC 1999)					TRHs (NEPC 2013)						BTEXN								
	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene
	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
ANZG (2018) Marine water 95% toxicant DGVs		0.0055	0.0044	0.0013	0.0044	0.0004	0.07	0.008												0.7	0.18	0.08		0.075		0.07	
ANZG (2018) Marine water 99% toxicant DGVs		0.0007	0.00014	0.0003	0.0022	0.0001	0.007	0.0033												0.5	0.11	0.05		0.05		0.05	
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																											
2-4m																			6	NL	5	NL	NL			NL	NL
4-8m																			6	NL	5	NL	NL			NL	NL
>8m																			7	NL	5	NL	NL			NL	NL
NEPM 2013 Table 1C GILs, Drinking Water	0.1	0.02	0.5	20	0.1	0.01	0.2													0.01	8	3			6		
PFAS NEMP 2020 Table 1 Health Recreational Water																											
PFAS NEMP 2020 Table 5 Interim marine 95%																											

Field ID	Sampled Date	Lab Report Number	0.015	0.012	0.007	<0.001	0.014	<0.0001	0.008	3.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	0.2	<0.1	0.2	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
JBS-MW01	15/11/2021	842906	0.015	0.012	0.007	<0.001	0.014	<0.0001	0.008	3.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	0.2	<0.1	0.2	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
JBS-MW02	15/11/2021	842906	0.056	0.014	0.004	0.005	0.018	<0.0001	0.016	1.2	<0.02	<0.05	0.3	<0.1	0.3	<0.02	<0.05	0.4	0.1	0.5	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
JBS-MW03	15/11/2021	842906	0.028	0.0004	0.003	<0.001	0.014	<0.0001	0.006	0.2	<0.02	0.21	0.5	<0.1	0.71	<0.02	0.3	0.5	0.1	0.9	<0.02	0.3	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.002
JBS-MW04	15/11/2021	842906	0.027	<0.0002	0.002	<0.001	0.001	<0.0001	0.003	0.085	0.03	1.3	1.4	<0.1	2.7	0.15	1.3	1.6	0.5	3.4	0.14	1.3	<0.001	<0.001	0.003	0.005	0.003	0.008	<0.005
JBS-MW05	15/11/2021	842906	0.053	0.0022	0.006	<0.001	0.005	<0.0001	0.017	0.064	<0.02	0.09	<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
MW01	15/11/2021	842906	0.002	<0.0002	0.002	0.002	0.001	<0.0001	0.002	0.027	<0.02	<0.05	0.2	<0.1	0.2	<0.02	<0.05	0.2	<0.1	0.2	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
MW02	15/11/2021	842906	0.02	0.0009	0.004	0.001	0.019	<0.0001	0.009	0.19	0.05	<0.05	<0.1	<0.1	<0.1	0.05	<0.05	<0.1	<0.1	<0.1	0.03	<0.05	0.018	0.001	<0.001	<0.001	<0.002	<0.003	<0.001
QC01 (duplicate MW2)	15/11/2021	842906	0.021	0.0008	0.004	<0.001	0.018	<0.0001	0.008	0.17	0.04	<0.05	<0.1	<0.1	<0.1	0.04	<0.05	<0.1	<0.1	<0.1	0.02	<0.05	0.017	0.001	<0.001	<0.001	<0.002	<0.003	<0.001
QA01 (triplicate MW2)	15/11/2021	282961	0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	0.002	-	-	-	-	-	-	-	-	-	-	-	-	0.019	0.001	<0.001	<0.001	<0.002	-	<0.002	
MW03	15/11/2021	842906	0.002	0.012	<0.001	0.002	0.003	<0.0001	0.002	0.23	<0.02	<0.05	0.1	<0.1	0.1	<0.02	<0.05	0.2	<0.1	0.2	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
MW04	15/11/2021	842906	0.021	0.001	0.002	0.005	0.004	<0.0001	0.002	0.2	<0.02	0.17	0.4	<0.1	0.57	<0.02	<0.05	0.4	0.1	0.5	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001
MW05	15/11/2021	842906	0.005	0.0018	0.002	<0.001	0.003	<0.0001	0.002	0.14	0.09	0.28	0.7	<0.1	0.98	0.15	0.34	0.6	0.1	1.04	0.15	0.34	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.001

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.



	PAH																	Organochlorine Pesticides																																	
	2-methylnaphthalene	3-methylcholanthrene	7,12-dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(b)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	2-(acetylamino) fluorene	Pentachlorophenol	4,4-DDE	α-BHC	β-BHC	γ-BHC	δ-BHC	γ-BHC (Lindane)	Aldrin	Dieldrin	Chlordane (cis)	Chlordane (trans)	DDT	DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor									
EQL	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005					
ANZG (2018) Marine water 95% toxicant DGVs						0.0004	0.0002								0.0014		0.002			0.022																													0.000008		
ANZG (2018) Marine water 99% toxicant DGVs						0.00001	0.0001								0.001		0.0006			0.011																													0.000004		
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																																			
2-4m																																																			
4-8m																																																			
>8m																																																			
NEPM 2013 Table 1C GILs, Drinking Water											0.001											0.1																											0.003		
PFAS NEMP 2020 Table 1 Health Recreational Water																																																			
PFAS NEMP 2020 Table 5 Interim marine 95%																																																			

Data Comments
 #1 Quantification of linear and branched isomers has been conducted as a si



	Solvents			Phenols												PFAS																																	
	Acetone	Iophorone	Benzyl chloride	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol (m&sp-cresol)	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-Nitrophenol	Phenol	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 (PFDDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (PFOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSAe)	N-ethylperfluorooctanesulfonamidoethanol (NEFOSAe)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEFOAA)	Perfluoropropanesulfonic acid (PFPS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPS)										
	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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
EQL	0.005	0.005	0.005	0.01	0.01	0.01	0.003	0.003	0.03	0.003	0.003	0.01	0.006	0.03	0.01	0.03	0.003	0.00005	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001			
ANZG (2018) Marine water 95% toxicant DGVs																																																	
ANZG (2018) Marine water 99% toxicant DGVs																																																	
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																																	
2-4m																																																	
4-8m																																																	
>8m																																																	
NEPM 2013 Table 1C GILs, Drinking Water						0.2	2				3																																						
PFAS NEMP 2020 Table 1 Health Recreational Water																								0.01																									
PFAS NEMP 2020 Table 5 Interim marine 95%																								0.22																									

Data Comments
 #1 Quantification of linear and branched isomers has been conducted as a si



	PFAS										MAH										Miscellaneous Hydrocarbons													
	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptanesulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H,1H,2H,2H-perfluoroheptanesulfonic acid (6:2 FTSA)	1H,1H,2H,2H-perfluorooctanesulfonic acid (8:2 FTSA)	1H,1H,2H,2H-perfluorodecane sulfonic 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)	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		
EQL	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00005	0.00001	0.00001	0.00001	0.00001	0.00005	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.005	0.005		
ANZG (2018) Marine water 95% toxicant DGVs																																		
ANZG (2018) Marine water 99% toxicant DGVs																																		
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																		
2-4m																																		
4-8m																																		
>8m																																		
NEPM 2013 Table 1C GILs, Drinking Water																																		
PFAS NEMP 2020 Table 1 Health Recreational Water	0.002		0.002							0.002																								
PFAS NEMP 2020 Table 5 Interim marine 95%			0.00013																															
Field ID	Sampled Date	Lab Report Number																																
JBS-MW01	15/11/2021	842906	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
JBS-MW02	15/11/2021	842906	<0.00001	<0.00001	0.00002 ^{#1}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	0.00004	0.00004	0.00009	<0.001	<0.001	-	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
JBS-MW03	15/11/2021	842906	0.00003 ^{#1}	<0.00001	0.00002 ^{#1}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00005	0.00007	0.00004	0.00014	0.00014	<0.001	<0.001	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
JBS-MW04	15/11/2021	842906	0.00001 ^{#1}	<0.00001	0.00002 ^{#1}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	0.00004	0.00003	0.00018	0.00018	0.032	0.005	-	-	-	<0.001	-	0.017	<0.001	0.006	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
JBS-MW05	15/11/2021	842906	0.00001 ^{#1}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	0.00001	<0.00001	0.00006	<0.001	<0.001	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005			
MW01	15/11/2021	842906	0.00002 ^{#1}	<0.00001	0.00001 ^{#2}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	0.00004	0.00002	0.00024	0.00024	<0.001	<0.001	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
MW02	15/11/2021	842906	0.00003 ^{#1}	<0.00001	0.00001 ^{#2}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004	0.00006	0.00003	0.00014	0.00014	<0.001	<0.001	-	-	-	<0.001	-	0.019	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
QC01 (duplicate MW2)	15/11/2021	842906	0.00003 ^{#1}	<0.00001	0.00001 ^{#2}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004	0.00005	0.00002	0.00013	0.00013	<0.001	<0.001	-	-	-	<0.001	-	0.018	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
QA01 (triplicate MW2)	15/11/2021	282961	0.00003	-	0.00002	-	-	<0.00001	<0.00002	-	0.00005	-	0.00003	-	0.00006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.01	0.003	<0.001	-	-	-		
MW03	15/11/2021	842906	0.00003 ^{#1}	<0.00001	0.00001 ^{#2}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004	0.00005	0.00002	0.00011	0.00011	<0.001	<0.001	-	-	-	<0.001	-	<0.003	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		
MW04	15/11/2021	842906	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00005	<0.001	<0.001	-	-	-	<0.001	-	<0.003	<0.001	0.002	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005			
MW05	15/11/2021	842906	0.00003 ^{#1}	<0.00001	0.00002 ^{#2}	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00005	0.00006	0.00003	0.00012	0.00012	<0.001	<0.001	-	-	-	<0.001	-	0.021	<0.001	0.021	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005		

Data Comments
 #1 Quantification of linear and branched isomers has been conducted as a si

Appendix B - Borelogs

Project Number 62110	Contractor Terratest	Easting N/A
Client Logos	Date 12-Nov-21	Northing N/A
Project Name St Peters Due Diligence	Plant Geoprobe	Coordinate System GDA94_MGA_zone_56
Address 28-30 Burrows Road, St Peters	Method CC/PT/SFA	Logged By MN

Ground Elevation N/A	Permit No. N/A	Stickup N/A
Top of Casing Elevation N/A	Borehole Depth 4 m bgl	Casing Description Class 18 PVC - 50mm
Completion Roadbox	Borehole Diameter 125 mm	Screen Interval 1 - 4 m bgl

Drilling Method	Water (m bgl)	JBS Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
CC			0.2		Concrete					Slight odour, no staining or asbestos observed. 10L AQ conducted between 0.2-0.9 m.
PT			0.4		Fill	Fill - Gravelly clayey SAND, dark grey, heterogeneous, damp, coarse sand loose, with inclusions of concrete, asphalt and large gravels	DP	JBS_MW1_0.2-0.3	0	Moderate odour, black staining, no asbestos observed.
			0.6	JBS_MW1_0.5-0.6				0.6		
SFA			1.0		SW	Natural - SAND, grey, homogenous, moist, fine sand loose	M			Slight odour, no staining or asbestos observed.
			1.2		SC	Natural - Clayey SAND, dark brown, homogenous, moist, fine sand medium dense	M			Slight odour, no staining or asbestos observed.
		1.6	JBS_MW1_2.0-2.1	1.6						
			2.0		SC	Natural - Clayey SAND, dark brown, homogenous, saturated, fine sand medium dense	S			Slight odour, no staining or asbestos observed.
			2.4	JBS_MW1_3.0-3.1				2.3		
			2.8		SC	Natural - Clayey SAND, dark brown, homogenous, saturated, fine sand medium dense	S			Slight odour, no staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.
			3.2	JBS_MW1_3.9-4.0				2.4		
			3.6							
			3.8							
			4.0			Termination Depth at: 4.00 m.				
			4.2							
			4.4							

Comments:

Project Number 62110	Contractor Terratest	Easting N/A
Client Logos	Date 12-Nov-21	Northing N/A
Project Name St Peters Due Diligence	Plant Geoprobe	Coordinate System GDA94_MGA_zone_56
Address 28-30 Burrows Road, St Peters	Method CC/PT/SFA	Logged By MN

Ground Elevation N/A	Permit No. N/A	Stickup N/A
Top of Casing Elevation N/A	Borehole Depth 4 m bgl	Casing Description Class 18 PVC - 50mm
Completion Roadbox	Borehole Diameter 125 mm	Screen Interval 1 - 4 m bgl

Drilling Method	Water (m bgl)	JBS Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations		
CC			0.2		Concrete					No odour, staining or asbestos observed. 10L AQ conducted between 0.2-0.7 m.		
PT			0.4		Fill	Fill - Gravelly SAND, brown/grey, heterogeneous, damp, medium sand medium dense, with inclusions of concrete, gravel, brick and glass	DP	JBS_MW2_0.2-0.3	1.2	QSA/C01 collected from JBS_MW0.2-0.3.		
			0.6						JBS_MW2_0.5-0.6		0.9	
SFA			0.8		SW	Natural - SAND, brown/grey, homogenous, moist, fine sand medium dense	M			No odour, staining or asbestos observed.		
			1.0						JBS_MW2_1.0-1.1	0.9	No odour, staining or asbestos observed.	
			1.2									
			1.4									
			1.6									
			1.8		CL-SC	Natural - Sandy CLAY, dark brown, homogenous, moist, high plasticity, very soft	M			Organic odour, no staining or asbestos observed.		
			2.0					JBS_MW2_2.0-2.1	0			
			2.2									
			2.4									
			2.6		CL-SC	Natural - Sandy CLAY, dark brown, homogenous, wet, high plasticity, very soft	W			No odour, staining or asbestos observed.		
			2.8									
			3.0					JBS_MW2_3.0-3.1	0			
			3.2									
			3.4									
			3.6									
			3.8							Organic odour, no staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.		
			4.0					JBS_MW2_3.9-4.0	0.1			
			4.2			Termination Depth at: 4.00 m.						
			4.4									

Comments:

Project Number 62110	Contractor Terratest	Easting N/A
Client Logos	Date 12-Nov-21	Northing N/A
Project Name St Peters Due Diligence	Plant Geoprobe	Coordinate System GDA94_MGA_zone_56
Address 28-30 Burrows Road, St Peters	Method CC/PT/SFA	Logged By MN

Ground Elevation N/A	Permit No. N/A	Stickup N/A
Top of Casing Elevation N/A	Borehole Depth 4 m bgl	Casing Description Class 18 PVC - 50mm
Completion Roadbox	Borehole Diameter 125 mm	Screen Interval 1 - 4 m bgl

Drilling Method	Water (m bgl)	Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
CC			0.2		Concrete					No odour, staining or asbestos observed. 10L AQ conducted between 0.2-0.7 m.
PT			0.4		Fill	Fill - Gravelly CLAY, black, heterogeneous, damp, medium plasticity, soft, with inclusions of concrete, gravel, asphalt, glass, plastic and wood	DP	JBS_MW3_0.2-0.3	0.6	No odour, staining or asbestos observed.
			0.6	JBS_MW3_0.5-0.6				1.6	No odour, staining or asbestos observed.	
SFA			0.8		SW	Natural - SAND, grey, homogenous, moist, medium sand medium dense	M			No odour, staining or asbestos observed.
			1.0	JBS_MW3_1.0-1.1				1	No odour, staining or asbestos observed.	
			1.2							
			1.4		SC	Natural - Clayey SAND, dark brown, homogenous, moist, medium sand medium dense	M			
		1.6								
			1.8		SC	Natural - Clayey SAND, dark brown, homogenous, wet, medium sand medium dense	W			
		2.0		JBS_MW3_2.0-2.1				28.1	Very strong odour, no staining or asbestos observed.	
		2.2								
		2.4								
		2.6								
		2.8								
		3.0						JBS_MW3_3.0-3.1	30.1	Very strong odour, no staining or asbestos observed.
		3.2								
		3.4								
		3.6								
		3.8						JBS_MW3_3.9-4.0	29.2	Very strong odour, no staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.
		4.0				Termination Depth at: 4.00 m.				
			4.2							
			4.4							

Comments:

Project Number 62110	Contractor Terratest	Easting N/A
Client Logos	Date 12-Nov-21	Northing N/A
Project Name St Peters Due Diligence	Plant Geoprobe	Coordinate System GDA94_MGA_zone_56
Address 28-30 Burrows Road, St Peters	Method CC/PT/SFA	Logged By MN

Ground Elevation N/A	Permit No. N/A	Stickup N/A
Top of Casing Elevation N/A	Borehole Depth 4 m bgl	Casing Description Class 18 PVC - 50mm
Completion Roadbox	Borehole Diameter 125 mm	Screen Interval 1 - 4 m bgl

Drilling Method	Water (m bgl)	JBS Well Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations							
CC			0.2		Concrete					No odour, staining or asbestos observed. 10L AQ conducted between 0.2-0.3 m.							
PT	iV		0.2		Fill	Fill - Gravelly SAND, dark brown, heterogeneous, moist, coarse sand loose, with inclusions of concrete, sandstone and plastic Natural - SAND, dark grey, homogenous, moist, medium sand medium dense	M	JBS_MW4_0.2-0.3	8.2	Strong odour, no staining or asbestos observed.							
			0.4	SW	M		JBS_MW4_0.5-0.6	16.4	Strong odour, no staining or asbestos observed.								
SFA			0.6		SW	Natural - SAND, dark grey, homogenous, moist, medium sand medium dense	W				Strong odour, no staining or asbestos observed.						
			0.8														
			1.0														
			1.2														
			1.4														
			1.6														
			1.8														
			2.0		SW	Natural - SAND, dark grey, homogenous, wet, medium sand medium dense	W	JBS_MW4_2.0-2.1	39	Strong odour, no staining or asbestos observed.							
			2.2														
			2.4														
			2.6														
			2.8														
			3.0								Strong odour, no staining or asbestos observed.						
			3.2														
			3.4														
			3.6														
			3.8								Strong odour, no staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.						
			4.0					JBS_MW4_3.9-4.0	40.8								
			4.2			Termination Depth at: 4.00 m.											
			4.4														

Comments:

Project Number 62110	Contractor Terratest	Easting N/A
Client Logos	Date 12-Nov-21	Northing N/A
Project Name St Peters Due Diligence	Plant Geoprobe	Coordinate System GDA94_MGA_zone_56
Address 28-30 Burrows Road, St Peters	Method CC/PT/SFA	Logged By MN

Ground Elevation N/A	Permit No. N/A	Stickup N/A
Top of Casing Elevation N/A	Borehole Depth 4 m bgl	Casing Description Class 18 PVC - 50mm
Completion Roadbox	Borehole Diameter 125 mm	Screen Interval 1 - 4 m bgl

Drilling Method	Water (m bgl)	JBS Details	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
CC			0.2		Concrete	Fill - Gravelly SAND, dark brown/black, heterogeneous, damp, fine sand loose, with inclusions of sandstone, brick, concrete and asphalt				No odour, staining or asbestos observed. 10L AQ conducted between 0.2-0.4 m.
PT			0.4		Fill		DP	JBS_MW5_0.2-0.3	0.2	
			0.6		SW	Natural - SAND, grey, homogenous, damp, medium sand medium dense	DP	JBS_MW5_0.5-0.6	1.4	No odour, staining or asbestos observed.
			0.8		SW	Natural - SAND, grey, homogenous, moist, medium sand medium dense	M			No odour, staining or asbestos observed.
			1.0					JBS_MW5_1.0-1.1	0.9	
SFA			1.2		SW	Natural - SAND, grey, homogenous, wet, medium sand medium dense	W			No odour, staining or asbestos observed.
			1.4							
			1.6							
			1.8							
			2.0					JBS_MW5_2.0-2.1	0.8	
			2.2							
			2.4							No odour, staining or asbestos observed.
			2.6							
			2.8							No odour, staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.
			3.0		JBS_MW5_3.0-3.1	0.4				
			3.2							No odour, staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.
			3.4							
			3.6							No odour, staining or asbestos observed. End of hole at 4.0 m bgs. Program depth.
			3.8							
			4.0					JBS_MW5_3.9-4.0	0.5	
			4.2			Termination Depth at: 4.00 m.				
			4.4							

Comments:

Appendix C – Photographic Log

PHOTOGRAPH 1: SEWER PIT AND OIL SEPARATOR PIT IN WESTERN PORTION OF SITE



PHOTOGRAPH 2: SPRAY BOOTH USED FOR STORAGE IN EASTERN PORTION OF SITE



PHOTOGRAPH 3: OUTDOOR FURNITURE DISPLAY IN NORTHWEST PORTION OF SITE



PHOTOGRAPH 4: SUMP PIT IN SOUTHWESTERN PORTION OF SITE



Job No: 62110

Client: Logos

Version: R01 Rev A Date: 29 Nov 2021

Drawn By: MN Checked By: CB

Not to Scale

Coord. Sys n/a

St Peters Due Diligence

APPENDIX C

PHOTOGRAPH 5: TRUCK WASH IN CENTRAL PORTION OF THE SITE – USED AS OUTDOOR FURNITURE STORAGE



PHOTOGRAPH 6: HOISTS IN MECHANICS WORKSHOP IN EASTERN PORTION OF THE SITE



PHOTOGRAPH 7: EASTERN PORTION OF SITE BEING USED FOR STORAGE



PHOTOGRAPH 8: OIL STAINING IN SOUTHEAST PORTION OF SITE



Job No: 62110

Client: Logos

Version: R01 Rev A Date: 29 Nov 2021

Drawn By: MN Checked By: CB

Not to Scale

Coord. Sys n/a

St Peters Due Diligence

APPENDIX C

Appendix D – EPA Records

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: Suburb: ST PETERS

Matched 4 notices relating to 1 site.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
ST PETERS	53 Barwon Park ROAD	Former Tidyburn Facility	4 former

Page 1 of 1

19 November 2021

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.70752272	151.187545
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7307595	151.1570462
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7168971	151.1735263
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.73124859	151.1575827
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	Regulation under CLM Act not required	-33.81873741	151.1914222
ST MARYS	7-Eleven (former Mobil) Service Station	2 Christie STREET	Service Station	Regulation under CLM Act not required	-33.74790843	150.7767667
ST MARYS	7-Eleven (former Mobil) Service Station	2 Wilson STREET	Service Station	Regulation under CLM Act not required	-33.77790415	150.771689
ST MARYS	Caltex St Marys Service Station	Wordoo St Cnr Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75334263	150.7755489
ST MARYS	Chemcolour Industries	19-25 Anne STREET	Chemical Industry	Regulation under CLM Act not required	-33.75027071	150.7725397
ST MARYS	Former Woolworths Service Station	120-128 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
ST MARYS	Integral Energy Mt Druitt Transmission Substation	69 Kurrajong North ROAD	Other Industry	Regulation under CLM Act not required	-33.76376093	150.7921691
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.76223376	150.774412
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73875413	150.7716457
ST MARYS	St Mary's Shopping Village	10 Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not required	-33.76647672	150.7710143
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90982281	151.1809936
ST PETERS	Burrows Industrial Estate	1-3 Burrows ROAD	Landfill	Regulation under CLM Act not required	-33.91725	151.180616

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST PETERS	Camdenville Park	May STREET	Other Industry	Regulation under CLM Act not required	-33.90911815	151.176951
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	Regulation under CLM Act not required	-33.91943986	151.1726689
ST PETERS	Former Industrial Manufacturing Facility (Taubman's Paints)	75 Mary STREET	Other Industry	Regulation under CLM Act not required	-33.91307297	151.1731383
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.9130091	151.1809912
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	Regulation under CLM Act not required	-33.88937382	151.1644589
STOCKTON	Former Coroba Landfill	310 Fullerton STREET	Landfill	Regulation under CLM Act not required	-32.89578751	151.7898857
STRATHFIELD	7-Eleven (former Mobil) Service Station	577 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88736091	151.0743474
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	Regulation under CLM Act not required	-33.89509698	151.0796751
STROUD	Stroud Fuel Supplies (Former Caltex) Service Station	1 Cowper STREET	Service Station	Regulation under CLM Act not required	-32.39092749	151.9563089
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	Regulation under CLM Act not required	-28.68800088	153.6083821
SUFFOLK PARK	Suffolk Park dip site	Cnr Broken Head Road & Beech DRIVE	Cattle Dip	Regulation under CLM Act not required	-28.6874242	153.6072824
SUMMER HILL	Maurice Dry Cleaners	150 Smith STREET	Other Industry	Under assessment	-33.891935	151.137331
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	Regulation under CLM Act not required	-33.88292195	151.2095176
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89223271	151.2161434
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02976735	151.0588789

Number	Name	Location	Type	Status	Issued date
1593734		25 Burrows Road South, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	16-Apr-20
1605186		6-10 Burrows Road South , ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	27-Jan-21
21616	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	16 ALBERT ST, ST PETERS, NSW 2044	POEO licence	Pending	
1113578	ACN 127 624 775 PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Jun-10
1116922	ACN 127 624 775 PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	5-Aug-10
1017904	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	31-May-02
1017963	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	6-Jun-02
1018247	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	18-Jun-02
1018386	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	21-Jun-02
1018818	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	9-Jul-02
1024148	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	7-Jan-03
1028703	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Jul-03
1040317	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	2-Sep-04
1041133	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	29-Sep-04
1042998	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Sep-05
1057971	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	31-Mar-06
1061862	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	2-Nov-06
1067504	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Dec-06
1068196	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	21-Jun-07
1093194	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	31-Oct-08
1099148	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Mar-09
1127043	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	15-Apr-11
1127407	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.110 Variation of Clean Up Notice	Issued	21-Apr-11
1127781	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.110 Variation of Clean Up Notice	Issued	28-Apr-11
1128035	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.110 Variation of Clean Up Notice	Issued	3-May-11
1128694	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	21-Jun-11
1507165	ALEXANDRIA LANDFILL PTY LTD	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	3-Aug-12
7590	BITUPAVE LTD	BURROWS ROAD SOUTH, ST PETERS, NSW 2044	POEO licence	Surrendered	22-Sep-00
1012172	BITUPAVE LTD	BURROWS ROAD SOUTH, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	15-Oct-01
1024930	BITUPAVE LTD	BURROWS ROAD SOUTH, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	14-Feb-03
1093242	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	31-Oct-08
1099150	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Mar-09
1110780	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	2-Mar-10
1123991	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	11-Feb-11
1128662	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	8-Jun-11
1500750	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	2-Sep-11
1502233	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.110 Variation of Clean Up Notice	Issued	2-Nov-11
1504464	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	15-Mar-12
3085763093	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	Penalty Notice	Issued	5-Apr-12
1507603	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	8-Aug-12

1520084	BOILING PTY LTD	10 ALBERT STREET, ST PETERS, NSW 2044	s.110 Variation of Clean Up Notice	Issued	3-Jul-14
12418	BORAL RECYCLING PTY LIMITED	25 Burrows Road South, ST PETERS, NSW 2044	POEO licence	Surrendered	21-Dec-05
1082128	BORAL RECYCLING PTY LIMITED	25 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	18-Dec-08
1101458	BORAL RECYCLING PTY LIMITED	25 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	3-Jun-09
1533349	BORAL RECYCLING PTY LIMITED	25 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	27-Jan-17
1183	BORAL RESOURCES (NSW) PTY LTD	25 BURROWS ROAD SOUTH, ST PETERS, NSW 2044	POEO licence	No longer in force	22-Aug-00
1007271	BORAL RESOURCES (NSW) PTY LTD	25 BURROWS ROAD SOUTH, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	26-Jul-01
1093256	BORAL RESOURCES (NSW) PTY LTD	25 BURROWS ROAD SOUTH, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	12-Nov-08
3173526080	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	Penalty Notice	Withdrawn	
1545898	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	26-Oct-16
1549125	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	8-Feb-17
1550068	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	16-Mar-17
1550650	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.96 Prevention Notice	Issued	28-Mar-17
1550780	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	31-Mar-17
1551203	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	13-Apr-17
1552047	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	17-May-17
1552509	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	26-May-17
1552538	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	26-May-17
1552934	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	14-Jun-17
1553293	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	19-Jun-17
3085782958	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	Penalty Notice	Issued	27-Jul-17
1555235	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	25-Aug-17
1560076	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	12-Jan-18
1564521	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	5-Jun-18
3173526144	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	Penalty Notice	Issued	10-Aug-18
1567566	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	14-Aug-18
1571099	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	6-Sep-19
1597180	CPB CONTRACTORS PTY LIMITED	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	13-Aug-20
10350	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	POEO licence	Surrendered	23-Dec-99
1010912	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.58 Licence Variation	Issued	29-Oct-01
1035112	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Mar-04
1052570	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.58 Licence Variation	Issued	17-Mar-06
1107439	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Nov-09

1112697	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.58 Licence Variation	Issued	23-Apr-10
1533677	GOOD RIVER PROPERTIES PTY LTD	33 Burrows Road (also known as 53-57 Campbell Road St Peters), ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	6-Oct-15
119	J A BRADSHAW PTY LTD	2 ALBERT STREET, ST PETERS, NSW 2044	POEO licence	Surrendered	29-Mar-00
1008197	J A BRADSHAW PTY LTD	2 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	27-Sep-01
1034715	J A BRADSHAW PTY LTD	2 ALBERT STREET, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	19-Feb-04
11483	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	POEO licence	Issued	9-Oct-01
1015425	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	18-Mar-02
1041162	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	23-Dec-04
1096640	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	16-Jan-09
1110923	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	23-Mar-10
1128714	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	4-Jul-11
1533266	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	16-Oct-15
1542153	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	18-Jul-16
1564853	METROPOLITAN DEMOLITIONS AND RECYCLING PTY LIMITED	396 PRINCES HIGHWAY, ST PETERS, NSW 2044	s.91 Clean Up Notice	Issued	25-May-18
12594	ROADS AND MARITIME SERVICES	10 ALBERT STREET, ST PETERS, NSW 2044	POEO licence	Surrendered	21-Jun-07
1533773	ROADS AND MARITIME SERVICES	10 ALBERT STREET, ST PETERS, NSW 2044	s.92 Clean Up Notice	Issued	6-Nov-15
1535597	ROADS AND MARITIME SERVICES	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	27-Apr-16
1538114	ROADS AND MARITIME SERVICES	10 ALBERT STREET, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	27-Apr-16
1540748	ROADS AND MARITIME SERVICES	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	20-May-16
1541193	ROADS AND MARITIME SERVICES	10 ALBERT STREET, ST PETERS, NSW 2044	s.110 Revocation of Clean Up Notice	Issued	9-Jun-16
5523	SEALED AIR AUSTRALIA PTY LIMITED	3 BURROWS ROAD, ST PETERS, NSW 2044	POEO licence	No longer in force	9-Dec-99
1044347	SEALED AIR AUSTRALIA PTY LIMITED	3 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	8-Feb-05
13432	SITA ALEXANDRIA PTY LTD	33 BURROWS ROAD, ST PETERS, NSW 2044	POEO licence	Surrendered	30-Sep-11
1502645	SITA ALEXANDRIA PTY LTD	33 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	6-Dec-11
1532373	SITA ALEXANDRIA PTY LTD	33 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	27-Jul-15
1539864	SITA ALEXANDRIA PTY LTD	33 BURROWS ROAD, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	5-May-16
1008992	SOUTH SYDNEY CITY COUNCIL	25 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	16-Aug-01
13142	SPRC PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	POEO licence	Surrendered	23-Apr-10
1119169	SPRC PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	26-Nov-10
3085776129	SPRC PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	Penalty Notice	Issued	2-Apr-15
1532465	SPRC PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	2-Nov-15
1536834	SPRC PTY LTD	6-10 Burrows Road South, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	2-Jul-19
11673	TF GROUP PTY LIMITED C/- HALL CHADWICK CHARTERED ACCOUNTANTS	5A CANAL ROAD, ST PETERS, NSW 2044	POEO licence	Surrendered	24-May-02
1047277	TF GROUP PTY LIMITED C/- HALL CHADWICK CHARTERED ACCOUNTANTS	5A CANAL ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	12-May-05
1096672	TF GROUP PTY LIMITED C/- HALL CHADWICK CHARTERED ACCOUNTANTS	5A CANAL ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	16-Jan-09
1109739	TF GROUP PTY LIMITED C/- HALL CHADWICK CHARTERED ACCOUNTANTS	5A CANAL ROAD, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	6-Jan-10
5923	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	POEO licence	Surrendered	22-Sep-00
1050956	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	21-Sep-05
1095661	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	20-Feb-09

1122609	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	10-Dec-10
1504273	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	23-Feb-12
1530093	THE COUNCIL OF THE CITY OF SYDNEY	25 BURROWS ROAD, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	24-Sep-15
6208	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	POEO licence	Surrendered	14-Aug-00
1013300	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Nov-01
1013476	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	7-Dec-01
1015463	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Apr-02
1022997	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	3-Dec-02
1047310	TIDYBURN PTY. LIMITED	15 CAMPBELL STREET, ST PETERS, NSW 2044	s.80 Surrender of a Licence	Issued	23-Jun-05
4627	TRANSPORT FOR NSW	10-16 ALBERT STREET, ST PETERS, NSW 2044	POEO licence	Issued	15-Jan-01
1609171	TRANSPORT FOR NSW	10-16 ALBERT STREET, ST PETERS, NSW 2044	s.58 Licence Variation	Issued	28-May-21
13069	VISY PAPER PTY. LTD.	6-10 Burrows Road South , ST PETERS, NSW 2044	POEO licence	Surrendered	2-Sep-09
1504558	VISY PAPER PTY. LTD.	6-10 Burrows Road South , ST PETERS, NSW 2044	s.58 Licence Variation	Issued	30-Mar-12
1532264	VISY PAPER PTY. LTD.	6-10 Burrows Road South , ST PETERS, NSW 2044	s.58 Licence Variation	Issued	15-Oct-15
3173523679	VISY PAPER PTY. LTD.	6-10 Burrows Road South , ST PETERS, NSW 2044	Penalty Notice	Issued	7-Dec-17
1548460	VISY PAPER PTY. LTD.	6-10 Burrows Road South , ST PETERS, NSW 2044	s.58 Licence Variation	Issued	11-Feb-19
1531854	WESTCONNEX DELIVERY AUTHORITY	10 ALBERT STREET, ST PETERS, NSW 2044	s.110 Revocation of Clean Up Notice	Issued	24-Sep-15

Appendix E – Laboratory Reports and Chain of Custody Documentation

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Chain of Custody



PROJECT NO.: 62110
 PROJECT NAME: *SI Peters*
 DATE NEEDED BY:
 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) *chiefs@jbsg.com.au*
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: *.....@jbsg.com.au; (3)@jbsg.com.au*

LABORATORY BATCH NO.:
 SAMPLERS: *mn*
 QC LEVEL: NEPM (2013)

*C. Bielby to email analysis
 > all soil sample collected 12/11/21*

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS		NOTES:
						IDENTIFICATION	NEPM/WA	
<i>JBS MW1 - 0.2-0.3</i>	<i>soil</i>	<i>12/11/21</i>		<i>Jar + PFAS + ice + ASS</i>				
<i>-0.5-0.6</i>								
<i>-1.0-1.1</i>								
<i>-2.0-2.1</i>								
<i>-3.0-3.1</i>								
<i>-3.9-4.0</i>								
<i>JBS MW2 - 0.2-0.3</i>								
<i>-0.5-0.6</i>								
<i>-1.0-1.1</i>								
<i>-2.0-2.1</i>								
<i>-3.0-3.1</i>								
<i>-3.9-4.0</i>								
<i>JBS MW3 - 0.2-0.3</i>								
<i>-0.5-0.6</i>								
<i>-1.0-1.1</i>								
<i>-2.0-2.1</i>								
<i>-3.0-3.1</i>								
<i>-3.9-4.0</i>								
<i>-5.0-4.0</i>								
<i>-3.9-4.0</i>								

RELINQUISHED BY: _____ DATE: *18/11/21*
 NAME: *M. Naudle*
 OF: JBS&G
 RECEIVED BY: _____ NAME: _____ DATE: _____
 METHOD OF SHIPMENT: _____
 CONSIGNMENT NOTE NO. _____
 TRANSPORT CO. _____
 CONSIGNMENT NOTE NO. _____
 TRANSPORT CO. _____
 CONTAINER & PRESERVATIVE CODES: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsrd.; C = Sodium Hydroxide Prsrd.; VC = Hydrochloric Acid Prsrd Vial; VS = Sulfuric Acid Prsrd Vial; Z = Zinc Prsrd; E = EDTA Prsrd; ST = Sterile Bottle; O = Other
 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

Eurofins 2/3

Chain of Custody



PROJECT NO.: 62110
 PROJECT NAME: St Peters
 DATE NEEDED BY:
 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) adminsw@jbsg.com.au; (2) ...@jbsg.com.au; (3) ...@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
 SAMPLERS: MN
 QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS		NOTES:
						IDENTIFICATION	NEPM/WA	
JBS MWS 0.2-0.3	soil	12/1/21		Justice + FAS + ASS				
-0.5-0.6								
-1.0-1.1								
-2.0-2.1								
-3.0-3.1								
-3.4-4.0								
JBS MWS 0.2-0.3								
-0.5-0.6								
-1.0-1.1								
-2.0-2.1								
-3.0-3.1								
-3.4-4.0								
JBS MWS 1-0.2-0.9								
MWS 2-0.2-0.7								
MWS 3-0.2-0.7								
MWS 4-0.2-0.3								
MWS 5-0.2-0.4								
QSA01								
QSA02								

RELINQUISHED BY: M. Nade 11/1/21
 DATE: 11/1/21
 OF: JBS&G

METHOD OF SHIPMENT: Justice PFA5TASS

RECEIVED BY: NAME: DATE: OF: NAME: DATE: OF: 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

G.L. M.D. Miller 9:36am 7-409 #841 777

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Euofins 3/3

Chain of Custody



PROJECT NO.: 62110
PROJECT NAME: St Peters
DATE NEEDED BY:
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) chief@jbsg.com.au; (3) m.nanda@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH																		TYPE OF ASBESTOS ANALYSIS		NOTES:
																							IDENTIFICATION	NEPM/WA	
Rinse. TS/TB.	water	12/11/20		vials, hny pfas, ambs 4x sides																					

RELINQUISHED BY: NAME: M. Nanda, DATE: 12/11/20, OF: JBS&G
METHOD OF SHIPMENT: CONSIGNMENT NOTE NO., TRANSPORT CO., CONSIGNMENT NOTE NO., TRANSPORT CO.
RECEIVED BY: NAME, DATE, NAME, DATE, OF, 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

GIL, Sid, 12/11/20 9:36am 7.4°C #84 777

Eurofins 113

Chain of Custody



PROJECT NO.: 62110
 PROJECT NAME: ST 72ers
 DATE NEEDED BY:
 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) chief@jbsg.com.au; (3) admin@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

C. Bielby to email analysis
 all soil sample collected 12/11/21

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	PH	Heavy Metals	TRLE/BTEX	PAHs	OC/P/PCBs	PFAS	Spores	TYPE OF ASBESTOS ANALYSIS		NOTES	
												IDENTIFICATION	DEFINITIVE		
JBS MW1-0.2-0.3	soil	12/11/21		Jar + PFMS + Ice - ASS											
-0.5-0.6															
-1.0-1.1															
-2.0-2.1															
-3.0-3.1															
-3.9-4.0															
JBS MW2-0.2-0.3															
-0.5-0.6															
-1.0-1.1															
-2.0-2.1															
-3.0-3.1															
-3.9-4.0															
JBS MW3-0.2-0.3															
-0.5-0.6															
-1.0-1.1															
-2.0-2.1															
-3.0-3.1															
-4.0-4.1															
-3.9-6.0															

RELINQUISHED BY: NAME: M. Naele, DATE: 12/11/21, OF: JBS&G

METHOD OF SHIPMENT: CONSIGNMENT NOTE NO., TRANSPORT CO., CONSIGNMENT NOTE NO., TRANSPORT CO.

RECEIVED BY: NAME: [Signature], DATE: [Signature], OF: [Signature]

FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes ___ No ___ Intact ___ Broken ___, COOLER TEMP: 74°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

#84177 G.C. 12/11/21 12/11/21 74°C 9.36A

Eurofins 2/3

Chain of Custody



PROJECT NO.: 62110
 PROJECT NAME: St Peters
 DATE NEEDED BY:
 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) *Chinley*@jbsg.com.au; (3) *M. Nade*@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	PH	Heavy Metals	Pb	Cd	Cu	Zn	Mn	Fe	Ni	Co	Cr	Mg	Ca	K	Na	S	C	H	TYPE OF ASBESTOS ANALYSIS		NOTES	
																							IDENTIFICATION	REMEDIATION		
JBS MWH-02-03	soil	18/1/12		Soil Ice, PBAF + ASD		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-05-06						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-10-11						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-20-21						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-30-31						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-39-40						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
JBS MWS-02-03						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-05-06						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-10-11						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-20-21						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-30-31						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
-39-40						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
JBS MWS1-02-09				Bar		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
MWS2-02-07						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
MWS3-02-07						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
MWS4-02-03						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
MWS5-02-04						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
QSA01						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
QSA02						/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

RELINQUISHED BY: NAME: <i>M. Nade</i> DATE: <i>18/1/12</i>	CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: DATE:	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
NAME: DATE:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE:	COOLER SEAL - Yes ___ No ___ Intact ___ Broken ___ COOLER TEMP ___ deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presvd.; C = Sodium Hydroxide Presvd.; VC = Hydrochloric Acid Presvd; VAS = Sulfuric Acid Presvd; VAS2 = Sulfuric Acid Presvd; Z = Zinc Presvd.; E = EDTA Presvd; ST = Storage Bottle; Q = Q15

#84777 GIL SJB MND 749 9.362

Chain of Custody



PROJECT NO: 62110
PROJECT NAME: St Peters
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS: MV
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) adminpsw@jbsg.com.au; (2) c.bickel@jbsg.com.au; (3) ...@jbsg.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS				NOTES
						BTEX	Heavy Metals	TRH/BTEX	PACTS	
Ringside TS/TB.	water F	17/11/10		bioh, nm pfor, ambe 4 x 20 days		/	/	/	/	

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes... No... Intact... Broken...	
M. Nanda	17/11/10					COOLER TEMP deg C	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER SEAL - Yes... No... Intact... Broken...	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER TEMP deg C	
				OF:			
OF:		TRANSPORT CO.					

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsrd.; C = Sodium Hydroxide Prsrd.; VC = Hydrochloric Acid Prsrd Vial; VS = Sulfuric Acid Prsrd Vial; S = Sulfuric Acid Prsrd; Z = Zinc Prsrd; E = EDTA Prsrd; ST = Sterile Bottle

487477 G.L. 512 17/11/10 9:36AM 7.4°C

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Chris Bielby
Project name: ST PETERS
Project ID: 62110
Turnaround time: 3 Day
Date/Time received: Nov 17, 2021 9:36 AM
Eurofins reference: 841777

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 : 7.4 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

Asbestos bag for QSA01 not received. analysis cancelled.

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 Chris Bielby - cbielby@jbsg.com.au.



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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16 Mars Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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NATA # 1261 Site # 25079

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Welshpool WA 6106
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NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 841777
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 9:36 AM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											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	JBS.MW1-1-1.1	Nov 12, 2021		Soil	S21-No39366							X	X			X		X
2	JBS.MW1-3.9-4	Nov 12, 2021		Soil	S21-No39367							X	X					
3	JBS.MW2-0.2-0.3	Nov 12, 2021		Soil	S21-No39368							X	X			X		X
4	JBS.MW2-3-3.1	Nov 12, 2021		Soil	S21-No39369							X	X					
5	JBS.MW3-0.2-0.3	Nov 12, 2021		Soil	S21-No39370							X	X			X		X
6	JBS.MW3-3.9-	Nov 12, 2021		Soil	S21-No39371								X		X			



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

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Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 841777
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 9:36 AM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
40	QSA01	Nov 12, 2021		Soil	S21-No39405		X											
41	QSA03	Nov 12, 2021		Soil	S21-No40369					X		X	X		X			
Test Counts						5	2	20	1	1	1	7	11	2	3	6	1	5

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: Chris Bielby
Report 841777-AID
Project Name **ST PETERS**
Project ID **62110**
Received Date Nov 17, 2021
Date Reported Nov 25, 2021

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name ST PETERS
Project ID 62110
Date Sampled Nov 12, 2021
Report 841777-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
JBS.MW1-0.2-0.9 ASB	21-No39376	Nov 12, 2021	Approximate Sample 742g Sample consisted of: Brown coarse-grained sandy soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JBS.MW2-0.2-0.7 ASB	21-No39377	Nov 12, 2021	Approximate Sample 870g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JBS.MW3-0.2-0.7 ASB	21-No39378	Nov 12, 2021	Approximate Sample 734g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JBS.MW4-0.2-0.3 ASB	21-No39379	Nov 12, 2021	Approximate Sample 818g Sample consisted of: Brown coarse-grained sandy soil, corroded metals and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
JBS.MW5-0.2-0.3 ASB	21-No39380	Nov 12, 2021	Approximate Sample 784g Sample consisted of: Brown coarse-grained sandy soil, cement, coal 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	Nov 17, 2021	Indefinite

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Melbourne
6 Monterey Road
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NATA # 1261 Site # 18217

Brisbane
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NATA # 1261 Site # 20794

Newcastle
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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

ABN: 91 05 0159 898

Perth
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Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 841777
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 9:36 AM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											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	JBS.MW1-1-1.1	Nov 12, 2021		Soil	S21-No39366							X	X			X		X
2	JBS.MW1-3.9-4	Nov 12, 2021		Soil	S21-No39367							X	X					
3	JBS.MW2-0.2-0.3	Nov 12, 2021		Soil	S21-No39368							X	X			X		X
4	JBS.MW2-3-3.1	Nov 12, 2021		Soil	S21-No39369							X	X					
5	JBS.MW3-0.2-0.3	Nov 12, 2021		Soil	S21-No39370							X	X			X		X
6	JBS.MW3-3.9-	Nov 12, 2021		Soil	S21-No39371								X		X			

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Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	841777	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	4																	
7	JBS.MW4-0.2-0.3	Nov 12, 2021		Soil	S21-No39372							X	X			X		X
8	JBS.MW4-2-2.1	Nov 12, 2021		Soil	S21-No39373							X	X		X			
9	JBS.MW5-0.2-0.3	Nov 12, 2021		Soil	S21-No39374								X			X		X
10	JBS.MW5-1-1.1	Nov 12, 2021		Soil	S21-No39375				X				X		X			
11	JBS.MW1-0.2-0.9 ASB	Nov 12, 2021		Soil	S21-No39376	X												
12	JBS.MW2-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39377	X												

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
13	JBS.MW3-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39378	X												
14	JBS.MW4-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39379	X												
15	JBS.MW5-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39380	X												
16	QSA03	Nov 12, 2021		Soil	S21-No39381		X											
17	RINSATE	Nov 12, 2021		Water	S21-No39382									X				
18	TS	Nov 12, 2021		Water	S21-No39383												X	
19	TB	Nov 12, 2021		Water	S21-No39384				X									
20	JBS.MW1-0.2-0.3	Nov 12, 2021		Soil	S21-No39385			X										

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Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
21	JBS.MW1-0.5-0.6	Nov 12, 2021		Soil	S21-No39386			X										
22	JBS.MW1-2-2.1	Nov 12, 2021		Soil	S21-No39387			X										
23	JBS.MW1-3-3.1	Nov 12, 2021		Soil	S21-No39388			X										
24	JBS.MW2-0.5-0.6	Nov 12, 2021		Soil	S21-No39389			X										
25	JBS.MW2-1-1.1	Nov 12, 2021		Soil	S21-No39390			X										
26	JBS.MW2-2-2.1	Nov 12, 2021		Soil	S21-No39391			X										
27	JBS.MW2-3.9-	Nov 12, 2021		Soil	S21-No39392			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
27	JBS.MW2-3.9-4	Nov 12, 2021		Soil	S21-No39392													
28	JBS.MW3-0.5-0.6	Nov 12, 2021		Soil	S21-No39393			X										
29	JBS.MW3-1-1.1	Nov 12, 2021		Soil	S21-No39394			X										
30	JBS.MW3-2-2.1	Nov 12, 2021		Soil	S21-No39395			X										
31	JBS.MW3-3-3.1	Nov 12, 2021		Soil	S21-No39396			X										
32	JBS.MW4-0.5-0.6	Nov 12, 2021		Soil	S21-No39397			X										
33	JBS.MW4-1-	Nov 12, 2021		Soil	S21-No39398			X										

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	1.1																	
34	JBS.MW4-3-3.1	Nov 12, 2021		Soil	S21-No39399			X										
35	JBS.MW4-3.9-4	Nov 12, 2021		Soil	S21-No39400			X										
36	JBS.MW5-0.5-0.6	Nov 12, 2021		Soil	S21-No39401			X										
37	JBS.MW5-2-2.1	Nov 12, 2021		Soil	S21-No39402			X										
38	JBS.MW5-3-3.1	Nov 12, 2021		Soil	S21-No39403			X										
39	JBS.MW5-3.9-4	Nov 12, 2021		Soil	S21-No39404			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X				X			
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
40	QSA01	Nov 12, 2021		Soil	S21-No39405		X											
41	QSA03	Nov 12, 2021		Soil	S21-No40369					X		X	X		X			
Test Counts						5	2	20	1	1	1	7	11	2	3	6	1	5

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/ld	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:
$$C = \frac{N}{a} \times \frac{a}{n} \times \frac{n}{r} \times \frac{r}{t} = K \times \frac{N}{n} \times \frac{1}{V}$$

Asbestos Content (as asbestos):
$$\% w/w = \frac{(m \times PA)}{M}$$

Weighted Average (of asbestos):
$$\% w/w = \frac{\sum (m \times PA)_x}{X}$$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 <i>Appendix 2</i> , else assumed to be 15% in accordance with WA DOH <i>Appendix 2 (PA)</i> .
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.
Compliant	Indicates the item has been assessed against the relevant criteria, e.g. NATA SAC_07.
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, <i>Asbestos: The Analysts Guide</i> , 2nd Edition (2021).
HSG264	UK HSE HSG264, <i>Asbestos: The Survey Guide</i> (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, <i>Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres</i> , 2nd Edition [NOHSC:3003(2005)].
N/A	Not Applicable. Indicates a result or assessment is not required or applicable to that item.
NATA	National Association of Testing Authorities, Australia.
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.
SAC_07	Specific Accreditation Criteria: ISO/IEC 17025 Application Document, Life Sciences – Annex, Asbestos sampling and testing.
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 to 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, <i>Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia</i> (updated 2021), including Appendix Four: <i>Laboratory analysis</i>
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%w _A).

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:

Laxman Dias Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 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: **Chris Bielby**

Report **841777-S**
 Project name **ST PETERS**
 Project ID **62110**
 Received Date **Nov 17, 2021**

Client Sample ID			JBS.MW1-1-1.1	JBS.MW1-3-9-4	^{G01} JBS.MW2-0.2-0.3	JBS.MW2-3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39366	S21-No39367	S21-No39368	S21-No39369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	27	-
TRH C15-C28	50	mg/kg	92	-	330	-
TRH C29-C36	50	mg/kg	170	-	490	-
TRH C10-C36 (Total)	50	mg/kg	262	-	847	-
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	230	-	700	-
TRH >C34-C40	100	mg/kg	< 100	-	400	-
TRH >C10-C40 (total)*	100	mg/kg	230	-	1100	-
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	%	85	-	54	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	1.0	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	1.3	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.6	-
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	-	0.7	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	0.8	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	0.6	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	0.6	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	0.9	-
Chrysene	0.5	mg/kg	< 0.5	-	0.8	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			JBS.MW1-1-1.1	JBS.MW1-3.9-4	^{G01} JBS.MW2-0.2-0.3	JBS.MW2-3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39366	S21-No39367	S21-No39368	S21-No39369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	-	1.4	-
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	-	0.8	-
Pyrene	0.5	mg/kg	< 0.5	-	1.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	8.1	-
2-Fluorobiphenyl (surr.)	1	%	104	-	91	-
p-Terphenyl-d14 (surr.)	1	%	104	-	88	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.5	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.5	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.5	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.5	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.5	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.5	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.5	-
Dieldrin	0.05	mg/kg	< 0.05	-	1.5	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.5	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.5	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.5	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.5	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.5	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.5	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.5	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.5	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 10	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	1.5	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.5	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	1.5	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 1	-
Dibutylchloroendate (surr.)	1	%	87	-	64	-
Tetrachloro-m-xylene (surr.)	1	%	114	-	105	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 1	-
Dibutylchloroendate (surr.)	1	%	87	-	64	-
Tetrachloro-m-xylene (surr.)	1	%	114	-	105	-

Client Sample ID			JBS.MW1-1-1.1	JBS.MW1-3.9-4	G01 JBS.MW2-0.2-0.3	JBS.MW2-3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39366	S21-No39367	S21-No39368	S21-No39369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.9	-	9.9	-
Cadmium	0.4	mg/kg	< 0.4	-	1.3	-
Chromium	5	mg/kg	6.8	-	14	-
Copper	5	mg/kg	< 5	-	94	-
Lead	5	mg/kg	< 5	-	85	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	< 5	-	13	-
Zinc	5	mg/kg	6.0	-	130	-
SPOCAS Suite						
pH-KCL	0.1	pH Units	6.8	5.5	11	6.7
pH-OX	0.1	pH Units	5.5	3.0	9.2	3.3
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	6.0	< 2	< 2
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	110	< 2	110
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	100	< 2	110
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	0.010	< 0.003	< 0.003
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	0.18	< 0.02	0.18
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	0.17	< 0.02	0.18
Sulfur - KCl Extractable	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
Sulfur - Peroxide	0.02	% S	0.11	0.19	0.07	0.21
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.11	0.19	0.05	0.21
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	67	120	29	130
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.02	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur	0.02	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur - equivalent S% pyrite ^{S02}	0.02	% S	N/A	N/A	N/A	N/A
Calcium - KCl Extractable	0.02	% Ca	0.14	0.04	0.39	0.09
Calcium - Peroxide	0.02	% Ca	0.18	0.05	1.5	0.11
Acid Reacted Calcium	0.02	% Ca	0.04	< 0.02	1.1	0.02
acidity - Acid Reacted Calcium	10	mol H+/t	20	< 10	550	10
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	0.03	< 0.02	0.89	< 0.02
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	< 0.02	< 0.02	< 0.02
Magnesium - Peroxide	0.02	% Mg	< 0.02	< 0.02	0.04	< 0.02
Acid Reacted Magnesium	0.02	% Mg	< 0.02	< 0.02	0.04	< 0.02
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10	< 10	34	< 10
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02	< 0.02	0.06	< 0.02
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	N/A	N/A	3.3	N/A
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	n/a	n/a	650	n/a
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	N/A	N/A	1.0	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	0.04	0.20	< 0.02	0.19
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	22	130	< 10	120
SPOCAS - Liming rate	1	kg CaCO3/t	2.0	9.0	< 1	9.0
Extraneous Material						
<2mm Fraction	0.005	g	98	110	81	110
>2mm Fraction	0.005	g	4.2	2.9	51	2.8
Analysed Material	0.1	%	96	97	62	98
Extraneous Material	0.1	%	4.1	2.6	38	2.5

Client Sample ID			JBS.MW1-1-1.1	JBS.MW1-3.9-4	^{G01} JBS.MW2-0.2-0.3	JBS.MW2-3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39366	S21-No39367	S21-No39368	S21-No39369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	23	21	6.2	28
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	106	-	102	-
13C5-PFPeA (surr.)	1	%	109	-	109	-
13C5-PFHxA (surr.)	1	%	101	-	105	-
13C4-PFHpA (surr.)	1	%	96	-	111	-
13C8-PFOA (surr.)	1	%	109	-	121	-
13C5-PFNA (surr.)	1	%	127	-	137	-
13C6-PFDA (surr.)	1	%	115	-	127	-
13C2-PFUnDA (surr.)	1	%	125	-	122	-
13C2-PFDoDA (surr.)	1	%	131	-	132	-
13C2-PFTeDA (surr.)	1	%	57	-	61	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	79	-	86	-
D3-N-MeFOSA (surr.)	1	%	102	-	102	-
D5-N-EtFOSA (surr.)	1	%	121	-	117	-
D7-N-MeFOSE (surr.)	1	%	90	-	83	-
D9-N-EtFOSE (surr.)	1	%	74	-	65	-
D5-N-EtFOSAA (surr.)	1	%	104	-	112	-
D3-N-MeFOSAA (surr.)	1	%	84	-	81	-
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5	-

Client Sample ID			JBS.MW1-1-1.1	JBS.MW1-3.9-4	G01 JBS.MW2-0.2-0.3	JBS.MW2-3-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39366	S21-No39367	S21-No39368	S21-No39369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	106	-	113	-
18O2-PFHxS (surr.)	1	%	114	-	121	-
13C8-PFOS (surr.)	1	%	112	-	118	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	116	-	113	-
13C2-6:2 FTSA (surr.)	1	%	128	-	176	-
13C2-8:2 FTSA (surr.)	1	%	92	-	99	-
13C2-10:2 FTSA (surr.)	1	%	77	-	96	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			G01 JBS.MW3-0.2-0.3	JBS.MW3-3.9-4	JBS.MW4-0.2-0.3	JBS.MW4-2-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39370	S21-No39371	S21-No39372	S21-No39373
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	25
TRH C10-C14	20	mg/kg	150	43	< 20	850
TRH C15-C28	50	mg/kg	2800	380	< 50	450
TRH C29-C36	50	mg/kg	1400	200	< 50	63
TRH C10-C36 (Total)	50	mg/kg	4350	623	< 50	1363
Naphthalene ^{N02}	0.5	mg/kg	4.2	1.2	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	32	< 20	< 20	150
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	30	< 20	< 20	150
TRH >C10-C16	50	mg/kg	280	71	< 50	910
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	275.8	69.8	< 50	910
TRH >C16-C34	100	mg/kg	3700	490	< 100	500
TRH >C34-C40	100	mg/kg	790	160	< 100	120
TRH >C10-C40 (total)*	100	mg/kg	4770	721	< 100	1530

Client Sample ID			G01 JBS.MW3-0.2-0.3	JBS.MW3-3.9-4	JBS.MW4-0.2-0.3	JBS.MW4-2-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39370	S21-No39371	S21-No39372	S21-No39373
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	0.4	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	1.1	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	1.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	59	72	77	83
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	5.2	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	5.2	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	5.2	-	1.2	-
Acenaphthene	0.5	mg/kg	0.6	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	0.6	-	< 0.5	-
Anthracene	0.5	mg/kg	1.0	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	2.6	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	3.6	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	2.1	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	2.1	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	2.8	-	< 0.5	-
Chrysene	0.5	mg/kg	3.9	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	0.6	-	< 0.5	-
Fluoranthene	0.5	mg/kg	4.0	-	< 0.5	-
Fluorene	0.5	mg/kg	1.3	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.6	-	< 0.5	-
Naphthalene	0.5	mg/kg	8.7	-	< 0.5	-
Phenanthrene	0.5	mg/kg	5.3	-	< 0.5	-
Pyrene	0.5	mg/kg	9.2	-	< 0.5	-
Total PAH*	0.5	mg/kg	50	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	111	-	79	-
p-Terphenyl-d14 (surr.)	1	%	99	-	89	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	< 0.1	-
4,4'-DDD	0.05	mg/kg	7.2	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	1.2	-	< 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	-

Client Sample ID			G01 JBS.MW3-0.2-0.3	JBS.MW3-3.9-4	JBS.MW4-0.2-0.3	JBS.MW4-2-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39370	S21-No39371	S21-No39372	S21-No39373
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	8.4	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	8.4	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	90	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	118	-	96	-
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	18	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 1	-	< 0.1	-
Total PCB*	0.1	mg/kg	18	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	90	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	118	-	96	-
Heavy Metals						
Arsenic	2	mg/kg	22	-	< 2	-
Cadmium	0.4	mg/kg	7.3	-	< 0.4	-
Chromium	5	mg/kg	150	-	< 5	-
Copper	5	mg/kg	160	-	< 5	-
Lead	5	mg/kg	1400	-	5.3	-
Mercury	0.1	mg/kg	1.0	-	< 0.1	-
Nickel	5	mg/kg	45	-	< 5	-
Zinc	5	mg/kg	1300	-	< 5	-
SPOCAS Suite						
pH-KCL	0.1	pH Units	8.6	-	6.3	6.4
pH-OX	0.1	pH Units	7.3	-	4.7	3.7
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	-	3.0	< 2
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	-	< 2	13
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	-	< 2	13
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	-	< 0.003	< 0.003
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	0.02
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	0.02
Sulfur - KCl Extractable	0.02	% S	0.02	-	< 0.02	< 0.02
Sulfur - Peroxide	0.02	% S	0.12	-	0.04	0.03
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.09	-	0.04	0.03
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	58	-	23	16
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	2.0	2.0
HCl Extractable Sulfur	0.02	% S	N/A	-	N/A	N/A
Net Acid soluble sulfur	0.02	% S	N/A	-	N/A	N/A
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	-	N/A	N/A
Net Acid soluble sulfur - equivalent S% pyrite ^{S02}	0.02	% S	N/A	-	N/A	N/A
Calcium - KCl Extractable	0.02	% Ca	0.24	-	0.09	< 0.02
Calcium - Peroxide	0.02	% Ca	1.1	-	0.11	0.02

Client Sample ID			G01 JBS.MW3-0.2-0.3	JBS.MW3-3.9-4	JBS.MW4-0.2-0.3	JBS.MW4-2-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39370	S21-No39371	S21-No39372	S21-No39373
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Acid Reacted Calcium	0.02	% Ca	0.87	-	< 0.02	0.02
acidity - Acid Reacted Calcium	10	mol H+/t	430	-	< 10	10
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	0.70	-	< 0.02	< 0.02
Magnesium - KCl Extractable	0.02	% Mg	0.03	-	< 0.02	< 0.02
Magnesium - Peroxide	0.02	% Mg	0.07	-	< 0.02	< 0.02
Acid Reacted Magnesium	0.02	% Mg	0.05	-	< 0.02	< 0.02
acidity - Acid Reacted Magnesium	10	mol H+/t	38	-	< 10	< 10
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	0.06	-	< 0.02	< 0.02
Acid Neutralising Capacity (ANCE)	0.02	% CaCO ₃	2.2	-	N/A	N/A
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	430	-	n/a	n/a
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	0.69	-	N/A	N/A
ANC Fineness Factor		factor	1.5	-	1.5	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	-	0.04	0.03
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	-	26	16
SPOCAS - Liming rate	1	kg CaCO ₃ /t	< 1	-	2.0	1.0
Extraneous Material						
<2mm Fraction	0.005	g	92	-	100	120
>2mm Fraction	0.005	g	2.2	-	0.16	< 0.005
Analysed Material	0.1	%	98	-	100	100
Extraneous Material	0.1	%	2.3	-	0.2	< 0.1
% Moisture						
% Moisture	1	%	12	29	7.5	21
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	115	-	99	-
13C5-PFPeA (surr.)	1	%	125	-	105	-
13C5-PFHxA (surr.)	1	%	136	-	111	-
13C4-PFHpA (surr.)	1	%	142	-	99	-
13C8-PFOA (surr.)	1	%	136	-	101	-
13C5-PFNA (surr.)	1	%	143	-	103	-
13C6-PFDA (surr.)	1	%	127	-	110	-
13C2-PFUnDA (surr.)	1	%	104	-	107	-
13C2-PFDoDA (surr.)	1	%	132	-	122	-
13C2-PFTeDA (surr.)	1	%	68	-	88	-

Client Sample ID			G01 JBS.MW3-0.2-0.3	JBS.MW3-3.9-4	JBS.MW4-0.2-0.3	JBS.MW4-2.2-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No39370	S21-No39371	S21-No39372	S21-No39373
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	75	-	71	-
D3-N-MeFOSA (surr.)	1	%	82	-	80	-
D5-N-EtFOSA (surr.)	1	%	90	-	78	-
D7-N-MeFOSE (surr.)	1	%	56	-	84	-
D9-N-EtFOSE (surr.)	1	%	35	-	82	-
D5-N-EtFOSAA (surr.)	1	%	119	-	100	-
D3-N-MeFOSAA (surr.)	1	%	70	-	100	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	125	-	106	-
18O2-PFHxS (surr.)	1	%	120	-	96	-
13C8-PFOS (surr.)	1	%	106	-	99	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	INT	-	136	-
13C2-6:2 FTSA (surr.)	1	%	INT	-	114	-
13C2-8:2 FTSA (surr.)	1	%	115	-	INT	-
13C2-10:2 FTSA (surr.)	1	%	96	-	154	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			JBS.MW5-0.2-0.3	JBS.MW5-1-1.1	QSA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-No39374	S21-No39375	S21-No40369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 200
TRH C15-C28	50	mg/kg	92	< 50	< 500
TRH C29-C36	50	mg/kg	< 50	< 50	< 500
TRH C10-C36 (Total)	50	mg/kg	92	< 50	< 500
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	< 500
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 500
TRH >C16-C34	100	mg/kg	160	< 100	< 1000
TRH >C34-C40	100	mg/kg	< 100	< 100	< 1000
TRH >C10-C40 (total)*	100	mg/kg	160	< 100	< 1000
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	%	INT	84	120
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	2.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	2.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	2.7
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	0.6
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.3
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.7
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	0.8
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	1.2
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.6
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.7
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	2.2
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	1.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	1.6
Pyrene	0.5	mg/kg	< 0.5	< 0.5	2.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	16.3
2-Fluorobiphenyl (surr.)	1	%	99	100	107
p-Terphenyl-d14 (surr.)	1	%	98	99	94
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	0.4	-	< 1
4,4'-DDD	0.05	mg/kg	0.07	-	< 0.5
4,4'-DDE	0.05	mg/kg	0.08	-	< 0.5
4,4'-DDT	0.05	mg/kg	0.07	-	< 0.5

Client Sample ID			JBS.MW5-0.2-0.3	JBS.MW5-1-1.1	QSA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-No39374	S21-No39375	S21-No40369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
a-HCH	0.05	mg/kg	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	-	1.8
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	1.8
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.22	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.62	-	1.8
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.4	-	< 1
Dibutylchloroendate (surr.)	1	%	101	-	82
Tetrachloro-m-xylene (surr.)	1	%	113	-	122
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	< 0.1	-	< 1
Dibutylchloroendate (surr.)	1	%	101	-	82
Tetrachloro-m-xylene (surr.)	1	%	113	-	122
Heavy Metals					
Arsenic	2	mg/kg	15	-	11
Cadmium	0.4	mg/kg	0.7	-	1.5
Chromium	5	mg/kg	19	-	31
Copper	5	mg/kg	610	-	92
Lead	5	mg/kg	330	-	110
Mercury	0.1	mg/kg	< 0.1	-	0.1
Nickel	5	mg/kg	21	-	27
Zinc	5	mg/kg	360	-	160
% Moisture					
	1	%	11	5.9	4.7

Client Sample ID			JBS.MW5-0.2-0.3	JBS.MW5-1-1.1	QSA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-No39374	S21-No39375	S21-No40369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5
13C4-PFBA (surr.)	1	%	93	-	131
13C5-PFPeA (surr.)	1	%	94	-	79
13C5-PFHxA (surr.)	1	%	88	-	92
13C4-PFHpA (surr.)	1	%	86	-	85
13C8-PFOA (surr.)	1	%	100	-	76
13C5-PFNA (surr.)	1	%	116	-	93
13C6-PFDA (surr.)	1	%	113	-	108
13C2-PFUnDA (surr.)	1	%	110	-	113
13C2-PFDoDA (surr.)	1	%	122	-	106
13C2-PFTeDA (surr.)	1	%	53	-	134
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10
13C8-FOSA (surr.)	1	%	73	-	139
D3-N-MeFOSA (surr.)	1	%	97	-	106
D5-N-EtFOSA (surr.)	1	%	111	-	70
D7-N-MeFOSE (surr.)	1	%	76	-	102
D9-N-EtFOSE (surr.)	1	%	56	-	81
D5-N-EtFOSAA (surr.)	1	%	105	-	119
D3-N-MeFOSAA (surr.)	1	%	74	-	127
Perfluoroalkyl sulfonic acids (PFSA)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5

Client Sample ID			JBS.MW5-0.2-0.3	JBS.MW5-1-1.1	QSA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-No39374	S21-No39375	S21-No40369
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFASs)					
13C3-PFBS (surr.)	1	%	90	-	82
18O2-PFHxS (surr.)	1	%	102	-	100
13C8-PFOS (surr.)	1	%	98	-	109
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	86	-	38
13C2-6:2 FTSA (surr.)	1	%	104	-	30
13C2-8:2 FTSA (surr.)	1	%	87	-	69
13C2-10:2 FTSA (surr.)	1	%	79	-	90
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	< 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
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 22, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 22, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 22, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 22, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 22, 2021	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 22, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 22, 2021	28 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 22, 2021	28 Days
SPOCAS Suite			
SPOCAS Suite - Method: LTM-GEN-7050	Brisbane	Nov 22, 2021	6 Week
Extraneous Material - Method: LTM-GEN-7050/7070	Brisbane	Nov 22, 2021	6 Week
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 18, 2021	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Nov 22, 2021	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Nov 22, 2021	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Nov 22, 2021	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Nov 22, 2021	28 Days

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Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											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	JBS.MW1-1-1.1	Nov 12, 2021		Soil	S21-No39366							X	X			X		X
2	JBS.MW1-3.9-4	Nov 12, 2021		Soil	S21-No39367							X	X					
3	JBS.MW2-0.2-0.3	Nov 12, 2021		Soil	S21-No39368							X	X			X		X
4	JBS.MW2-3-3.1	Nov 12, 2021		Soil	S21-No39369							X	X					
5	JBS.MW3-0.2-0.3	Nov 12, 2021		Soil	S21-No39370							X	X			X		X
6	JBS.MW3-3.9-	Nov 12, 2021		Soil	S21-No39371								X		X			

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ABN: 91 05 0159 898

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: ST PETERS
Project ID: 62110

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Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	4																	
7	JBS.MW4-0.2-0.3	Nov 12, 2021		Soil	S21-No39372							X	X			X		X
8	JBS.MW4-2-2.1	Nov 12, 2021		Soil	S21-No39373							X	X		X			
9	JBS.MW5-0.2-0.3	Nov 12, 2021		Soil	S21-No39374								X		X			X
10	JBS.MW5-1-1.1	Nov 12, 2021		Soil	S21-No39375				X				X		X			
11	JBS.MW1-0.2-0.9 ASB	Nov 12, 2021		Soil	S21-No39376	X												
12	JBS.MW2-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39377	X												

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
13	JBS.MW3-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39378	X												
14	JBS.MW4-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39379	X												
15	JBS.MW5-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39380	X												
16	QSA03	Nov 12, 2021		Soil	S21-No39381		X											
17	RINSATE	Nov 12, 2021		Water	S21-No39382									X				
18	TS	Nov 12, 2021		Water	S21-No39383												X	
19	TB	Nov 12, 2021		Water	S21-No39384				X									
20	JBS.MW1-0.2-0.3	Nov 12, 2021		Soil	S21-No39385			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
21	JBS.MW1-0.5-0.6	Nov 12, 2021		Soil	S21-No39386			X										
22	JBS.MW1-2-2.1	Nov 12, 2021		Soil	S21-No39387			X										
23	JBS.MW1-3-3.1	Nov 12, 2021		Soil	S21-No39388			X										
24	JBS.MW2-0.5-0.6	Nov 12, 2021		Soil	S21-No39389			X										
25	JBS.MW2-1-1.1	Nov 12, 2021		Soil	S21-No39390			X										
26	JBS.MW2-2-2.1	Nov 12, 2021		Soil	S21-No39391			X										
27	JBS.MW2-3.9-	Nov 12, 2021		Soil	S21-No39392			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
27	JBS.MW2-3.9-4	Nov 12, 2021		Soil	S21-No39392													
28	JBS.MW3-0.5-0.6	Nov 12, 2021		Soil	S21-No39393			X										
29	JBS.MW3-1-1.1	Nov 12, 2021		Soil	S21-No39394			X										
30	JBS.MW3-2-2.1	Nov 12, 2021		Soil	S21-No39395			X										
31	JBS.MW3-3-3.1	Nov 12, 2021		Soil	S21-No39396			X										
32	JBS.MW4-0.5-0.6	Nov 12, 2021		Soil	S21-No39397			X										
33	JBS.MW4-1-	Nov 12, 2021		Soil	S21-No39398			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	1.1																	
34	JBS.MW4-3-3.1	Nov 12, 2021		Soil	S21-No39399			X										
35	JBS.MW4-3.9-4	Nov 12, 2021		Soil	S21-No39400			X										
36	JBS.MW5-0.5-0.6	Nov 12, 2021		Soil	S21-No39401			X										
37	JBS.MW5-2-2.1	Nov 12, 2021		Soil	S21-No39402			X										
38	JBS.MW5-3-3.1	Nov 12, 2021		Soil	S21-No39403			X										
39	JBS.MW5-3.9-4	Nov 12, 2021		Soil	S21-No39404			X										

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Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEX/N/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
40	QSA01	Nov 12, 2021		Soil	S21-No39405		X											
41	QSA03	Nov 12, 2021		Soil	S21-No40369					X		X	X		X			
Test Counts						5	2	20	1	1	1	7	11	2	3	6	1	5

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
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	
Perfluoronanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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 FTSA)							
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	%	90			70-130	Pass	
TRH C10-C14	%	88			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	102			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	74			70-130	Pass	
Anthracene	%	89			70-130	Pass	
Benz(a)anthracene	%	73			70-130	Pass	
Benzo(a)pyrene	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	%	80			70-130	Pass	
Benzo(g,h,i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	79			70-130	Pass	
Chrysene	%	72			70-130	Pass	
Dibenz(a,h)anthracene	%	84			70-130	Pass	
Fluoranthene	%	81			70-130	Pass	
Fluorene	%	89			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	84			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	83			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4,4'-DDD	%	85			70-130	Pass	
4,4'-DDE	%	91			70-130	Pass	
4,4'-DDT	%	81			70-130	Pass	
a-HCH	%	78			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-HCH	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
d-HCH	%	81			70-130	Pass	
Dieldrin	%	87			70-130	Pass	
Endosulfan I	%	91			70-130	Pass	
Endosulfan II	%	87			70-130	Pass	
Endosulfan sulphate	%	76			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	85			70-130	Pass	
Endrin ketone	%	76			70-130	Pass	
g-HCH (Lindane)	%	84			70-130	Pass	
Heptachlor	%	80			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	81			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	91			70-130	Pass	
Aroclor-1260	%	92			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	85			80-120	Pass	
Cadmium	%	85			80-120	Pass	
Chromium	%	86			80-120	Pass	
Copper	%	87			80-120	Pass	
Lead	%	88			80-120	Pass	
Mercury	%	91			80-120	Pass	
Nickel	%	88			80-120	Pass	
Zinc	%	89			80-120	Pass	
LCS - % Recovery							
SPOCAS Suite							
pH-KCL	%	95			80-120	Pass	
Acid trail - Titratable Actual Acidity	%	100			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	91			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	97			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	98			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	99			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	148			50-150	Pass	
Perfluorotetradecanoic acid (PFTTeDA)	%	94			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	103			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			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)	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	96			50-150	Pass	
LCS - % Recovery							

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)			%	102		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	98		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	109		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	94		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	96		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	109		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	98		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	96		50-150	Pass	
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	97		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)			%	90		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	100		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	S21-No42088	NCP	%	122		70-130	Pass	
TRH C10-C14	S21-No34268	NCP	%	77		70-130	Pass	
Naphthalene	S21-No14266	NCP	%	88		70-130	Pass	
TRH C6-C10	S21-No42088	NCP	%	117		70-130	Pass	
TRH >C10-C16	S21-No34268	NCP	%	75		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-No14266	NCP	%	87		70-130	Pass	
Toluene	S21-No14266	NCP	%	106		70-130	Pass	
Ethylbenzene	S21-No14266	NCP	%	100		70-130	Pass	
m&p-Xylenes	S21-No14266	NCP	%	103		70-130	Pass	
o-Xylene	S21-No14266	NCP	%	108		70-130	Pass	
Xylenes - Total*	S21-No14266	NCP	%	105		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Benz(a)anthracene	S21-No34577	NCP	%	77		70-130	Pass	
Benzo(a)pyrene	S21-No34577	NCP	%	78		70-130	Pass	
Benzo(b&j)fluoranthene	S21-No34577	NCP	%	76		70-130	Pass	
Chrysene	S21-No34577	NCP	%	77		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
4,4'-DDD	S21-No34577	NCP	%	79		70-130	Pass	
4,4'-DDT	S21-No34577	NCP	%	77		70-130	Pass	
a-HCH	S21-No34577	NCP	%	77		70-130	Pass	
Aldrin	S21-No34577	NCP	%	84		70-130	Pass	
b-HCH	S21-No34577	NCP	%	79		70-130	Pass	
d-HCH	S21-No34577	NCP	%	83		70-130	Pass	
Dieldrin	S21-No34577	NCP	%	79		70-130	Pass	
Endosulfan I	S21-No34577	NCP	%	80		70-130	Pass	
Endosulfan sulphate	S21-No34577	NCP	%	72		70-130	Pass	
Endrin	S21-No34577	NCP	%	77		70-130	Pass	
Endrin ketone	S21-No34577	NCP	%	76		70-130	Pass	
g-HCH (Lindane)	S21-No34577	NCP	%	83		70-130	Pass	
Heptachlor	S21-No34577	NCP	%	73		70-130	Pass	
Heptachlor epoxide	S21-No34577	NCP	%	80		70-130	Pass	
Methoxychlor	S21-No34577	NCP	%	75		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No38995	NCP	%	94		75-125	Pass	
Cadmium	S21-No38995	NCP	%	89		75-125	Pass	
Chromium	S21-No38995	NCP	%	92		75-125	Pass	
Copper	S21-No38995	NCP	%	90		75-125	Pass	
Lead	S21-No38995	NCP	%	92		75-125	Pass	
Mercury	S21-No38995	NCP	%	92		75-125	Pass	
Nickel	S21-No38995	NCP	%	92		75-125	Pass	
Zinc	S21-No38995	NCP	%	91		75-125	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	S21-No39082	NCP	%	93		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-No39082	NCP	%	89		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-No39082	NCP	%	89		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-No39082	NCP	%	91		50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-No39082	NCP	%	93		50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-No39082	NCP	%	91		50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-No39082	NCP	%	101		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-No39082	NCP	%	94		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-No39082	NCP	%	92		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-No39082	NCP	%	148		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-No39082	NCP	%	92		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	S21-No39082	NCP	%	98		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-No39082	NCP	%	98		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-No39082	NCP	%	95		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-No39082	NCP	%	103		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-No39082	NCP	%	109		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-No39082	NCP	%	86		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-No39082	NCP	%	89		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	S21-No39082	NCP	%	99		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-No39082	NCP	%	91		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-No39082	NCP	%	100		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-No39082	NCP	%	92		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-No39082	NCP	%	105		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-No39082	NCP	%	107		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-No39082	NCP	%	96		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	S21-No39082	NCP	%	96			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-No39082	NCP	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-No39082	NCP	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-No39082	NCP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-No39082	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-No39368	CP	%	72			70-130	Pass	
Acenaphthylene	S21-No39368	CP	%	70			70-130	Pass	
Anthracene	S21-No39368	CP	%	72			70-130	Pass	
Benzo(k)fluoranthene	S21-No39368	CP	%	81			70-130	Pass	
Fluoranthene	S21-No39368	CP	%	74			70-130	Pass	
Fluorene	S21-No39368	CP	%	71			70-130	Pass	
Naphthalene	S21-No39368	CP	%	75			70-130	Pass	
Phenanthrene	S21-No39368	CP	%	79			70-130	Pass	
Pyrene	S21-No39368	CP	%	77			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-No39368	CP	%	71			70-130	Pass	
4,4'-DDE	S21-No39368	CP	%	76			70-130	Pass	
Endosulfan II	S21-No39368	CP	%	79			70-130	Pass	
Hexachlorobenzene	S21-No39368	CP	%	75			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-No39368	CP	%	78			70-130	Pass	
Aroclor-1260	S21-No39368	CP	%	90			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g,h,i)perylene	S21-No26992	NCP	%	118			70-130	Pass	
Dibenz(a,h)anthracene	S21-No33660	NCP	%	84			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No33660	NCP	%	82			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	S21-No14146	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No14146	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-No14146	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S21-No14146	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No14146	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-No14146	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&i)fluoranthene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4,4'-DDD	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4,4'-DDE	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4,4'-DDT	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-HCH	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-HCH	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-HCH	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-HCH (Lindane)	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S21-No42799	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toxaphene	S21-No42799	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1221	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1232	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1242	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1248	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1254	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1260	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Total PCB*	S21-No42799	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No47180	NCP	mg/kg	2.9	4.1	33	30%	Fail	Q15
Cadmium	S21-No47180	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No47179	NCP	mg/kg	11	16	35	30%	Fail	Q15
Copper	S21-No47180	NCP	mg/kg	11	9.5	16	30%	Pass	
Lead	S21-No47180	NCP	mg/kg	33	36	7.0	30%	Pass	
Mercury	S21-No47180	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No47180	NCP	mg/kg	6.5	8.4	27	30%	Pass	
Zinc	S21-No47180	NCP	mg/kg	40	57	34	30%	Fail	Q15

Duplicate								
SPOCAS Suite				Result 1	Result 2	RPD		
pH-KCL	S21-No34316	NCP	pH Units	6.4	6.4	<1	30%	Pass
pH-OX	S21-No34316	NCP	pH Units	2.2	2.2	1.0	30%	Pass
Acid trail - Titratable Actual Acidity	S21-No34316	NCP	mol H+/t	4.0	3.0	16	30%	Pass
Acid trail - Titratable Peroxide Acidity	S21-No34316	NCP	mol H+/t	1500	1600	3.0	30%	Pass
Acid trail - Titratable Sulfidic Acidity	S21-No34316	NCP	mol H+/t	1500	1600	3.0	30%	Pass
sulfidic - TAA equiv. S% pyrite	S21-No34316	NCP	% pyrite S	0.010	0.010	16	30%	Pass
sulfidic - TPA equiv. S% pyrite	S21-No34316	NCP	% pyrite S	2.5	2.5	3.0	30%	Pass
sulfidic - TSA equiv. S% pyrite	S21-No34316	NCP	% pyrite S	2.5	2.5	3.0	30%	Pass
Sulfur - KCl Extractable	S21-No34316	NCP	% S	0.18	0.19	4.0	30%	Pass
Sulfur - Peroxide	S21-No34316	NCP	% S	2.5	2.5	<1	30%	Pass
Sulfur - Peroxide Oxidisable Sulfur	S21-No34316	NCP	% S	2.3	2.3	<1	30%	Pass
acidity - Peroxide Oxidisable Sulfur	S21-No34316	NCP	mol H+/t	1500	1500	<1	30%	Pass
HCl Extractable Sulfur	S21-No34316	NCP	% S	N/A	N/A	N/A	30%	Pass
Net Acid soluble sulfur	S21-No34316	NCP	% S	N/A	N/A	N/A	30%	Pass
Net Acid soluble sulfur - acidity units	S21-No34316	NCP	mol H+/t	N/A	N/A	N/A	30%	Pass
Net Acid soluble sulfur - equivalent S% pyrite	S21-No34316	NCP	% S	N/A	N/A	N/A	30%	Pass
Calcium - KCl Extractable	S21-No34316	NCP	% Ca	0.44	0.45	2.0	30%	Pass
Calcium - Peroxide	S21-No34316	NCP	% Ca	0.51	0.51	<1	30%	Pass
Acid Reacted Calcium	S21-No34316	NCP	% Ca	0.07	0.05	19	30%	Pass
acidity - Acid Reacted Calcium	S21-No34316	NCP	mol H+/t	33	27	19	30%	Pass
sulfidic - Acid Reacted Ca equiv. S% pyrite	S21-No34316	NCP	% S	0.05	0.04	19	30%	Pass
Magnesium - KCl Extractable	S21-No34316	NCP	% Mg	0.06	0.06	2.0	30%	Pass
Magnesium - Peroxide	S21-No34316	NCP	% Mg	0.08	0.08	1.0	30%	Pass
Acid Reacted Magnesium	S21-No34316	NCP	% Mg	0.02	0.02	3.0	30%	Pass
acidity - Acid Reacted Magnesium	S21-No34316	NCP	mol H+/t	19	19	3.0	30%	Pass
sulfidic - Acid Reacted Mg equiv. S% pyrite	S21-No34316	NCP	% S	0.03	0.03	3.0	30%	Pass
Acid Neutralising Capacity (ANCE)	S21-No34316	NCP	% CaCO ₃	N/A	N/A	N/A	30%	Pass
Acid Neutralising Capacity - Acidity units (a-ANCE)	S21-No34316	NCP	mol H+/t	n/a	n/a	N/A	30%	Pass
ANC Fineness Factor	S21-No34316	NCP	factor	1.5	1.5	<1	30%	Pass
SPOCAS - Net Acidity (Sulfur Units)	S21-No34316	NCP	% S	2.3	2.3	<1	30%	Pass
SPOCAS - Net Acidity (Acidity Units)	S21-No34316	NCP	mol H+/t	1500	1500	<1	30%	Pass
SPOCAS - Liming rate	S21-No34316	NCP	kg CaCO ₃ /t	110	110	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-No38694	NCP	%	19	20	2.0	30%	Pass
Duplicate								
SPOCAS Suite				Result 1	Result 2	RPD		
pH-KCL	S21-No39372	CP	pH Units	6.3	6.3	<1	30%	Pass
pH-OX	S21-No39372	CP	pH Units	4.7	4.7	1.0	30%	Pass
Acid trail - Titratable Actual Acidity	S21-No39372	CP	mol H+/t	3.0	3.0	14	30%	Pass
Acid trail - Titratable Peroxide Acidity	S21-No39372	CP	mol H+/t	< 2	< 2	<1	30%	Pass
Acid trail - Titratable Sulfidic Acidity	S21-No39372	CP	mol H+/t	< 2	< 2	<1	30%	Pass
sulfidic - TAA equiv. S% pyrite	S21-No39372	CP	% pyrite S	< 0.003	0.010	14	30%	Pass
sulfidic - TPA equiv. S% pyrite	S21-No39372	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass
sulfidic - TSA equiv. S% pyrite	S21-No39372	CP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass
Sulfur - KCl Extractable	S21-No39372	CP	% S	< 0.02	< 0.02	<1	30%	Pass
Sulfur - Peroxide	S21-No39372	CP	% S	0.04	0.04	<1	30%	Pass
Sulfur - Peroxide Oxidisable Sulfur	S21-No39372	CP	% S	0.04	0.04	<1	30%	Pass

Duplicate								
SPOCAS Suite				Result 1	Result 2	RPD		
acidity - Peroxide Oxidisable Sulfur	S21-No39372	CP	mol H+/t	23	23	<1	30%	Pass
HCl Extractable Sulfur	S21-No39372	CP	% S	N/A	N/A	<1	30%	Pass
Net Acid soluble sulfur	S21-No39372	CP	% S	N/A	N/A	N/A	30%	Pass
Net Acid soluble sulfur - acidity units	S21-No39372	CP	mol H+/t	N/A	N/A	N/A	30%	Pass
Net Acid soluble sulfur - equivalent S% pyrite	S21-No39372	CP	% S	N/A	N/A	N/A	30%	Pass
Calcium - KCl Extractable	S21-No39372	CP	% Ca	0.09	0.10	2.0	30%	Pass
Calcium - Peroxide	S21-No39372	CP	% Ca	0.11	0.11	1.0	30%	Pass
Acid Reacted Calcium	S21-No39372	CP	% Ca	< 0.02	< 0.02	<1	30%	Pass
acidity - Acid Reacted Calcium	S21-No39372	CP	mol H+/t	< 10	< 10	<1	30%	Pass
sulfidic - Acid Reacted Ca equiv. S% pyrite	S21-No39372	CP	% S	< 0.02	< 0.02	<1	30%	Pass
Magnesium - KCl Extractable	S21-No39372	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass
Magnesium - Peroxide	S21-No39372	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass
Acid Reacted Magnesium	S21-No39372	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass
acidity - Acid Reacted Magnesium	S21-No39372	CP	mol H+/t	< 10	< 10	<1	30%	Pass
sulfidic - Acid Reacted Mg equiv. S% pyrite	S21-No39372	CP	% S	< 0.02	< 0.02	<1	30%	Pass
Acid Neutralising Capacity (ANCE)	S21-No39372	CP	% CaCO3	N/A	N/A	N/A	30%	Pass
Acid Neutralising Capacity - Acidity units (a-ANCE)	S21-No39372	CP	mol H+/t	n/a	n/a	N/A	30%	Pass
ANC Fineness Factor	S21-No39372	CP	factor	1.5	1.5	<1	30%	Pass
SPOCAS - Net Acidity (Sulfur Units)	S21-No39372	CP	% S	0.04	0.04	2.0	30%	Pass
SPOCAS - Net Acidity (Acidity Units)	S21-No39372	CP	mol H+/t	26	26	2.0	30%	Pass
SPOCAS - Liming rate	S21-No39372	CP	kg CaCO3/t	2.0	2.0	2.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S21-No39374	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	S21-No39374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S21-No39374	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-No39374	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-No39374	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-No39374	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-No39374	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S21-No39374	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-No39374	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-No40369	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-No40369	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-No40369	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-No40369	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-No40369	CP	ug/kg	< 5	< 5	<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
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).
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.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Myles Clark	Senior Analyst-SPOCAS (QLD)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Sarah McCallion	Senior Analyst-PFAS (QLD)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 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: **Chris Bielby**

Report **841777-W**
 Project name **ST PETERS**
 Project ID **62110**
 Received Date **Nov 17, 2021**

Client Sample ID			RINSATE	TS	TB
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-No39382	S21-No39383	S21-No39384
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	0.02	mg/L	< 0.02	-	-
TRH C10-C14	0.05	mg/L	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-	-
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-	-
BTEX					
Benzene	0.001	mg/L	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	98	-	98
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	-	-
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	-	-
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-

Client Sample ID			RINSATE	TS	TB
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-No39382	S21-No39383	S21-No39384
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Naphthalene	0.001	mg/L	< 0.001	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-
Pyrene	0.001	mg/L	< 0.001	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	67	-	-
p-Terphenyl-d14 (surr.)	1	%	142	-	-
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	-	-
BTEX					
Benzene	1	%	-	100	-
Ethylbenzene	1	%	-	92	-
m&p-Xylenes	1	%	-	95	-
o-Xylene	1	%	-	86	-
Toluene	1	%	-	97	-
Xylenes - Total	1	%	-	89	-
4-Bromofluorobenzene (surr.)	1	%	-	98	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 17, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 17, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 17, 2021	7 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 17, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 17, 2021	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 17, 2021	28 Days

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 9:36 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	841777	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEX/N/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											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	JBS.MW1-1-1.1	Nov 12, 2021		Soil	S21-No39366							X	X			X		X
2	JBS.MW1-3.9-4	Nov 12, 2021		Soil	S21-No39367							X	X					
3	JBS.MW2-0.2-0.3	Nov 12, 2021		Soil	S21-No39368							X	X		X			X
4	JBS.MW2-3-3.1	Nov 12, 2021		Soil	S21-No39369							X	X					
5	JBS.MW3-0.2-0.3	Nov 12, 2021		Soil	S21-No39370							X	X		X			X
6	JBS.MW3-3.9-	Nov 12, 2021		Soil	S21-No39371								X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	4																	
7	JBS.MW4-0.2-0.3	Nov 12, 2021		Soil	S21-No39372							X	X			X		X
8	JBS.MW4-2-2.1	Nov 12, 2021		Soil	S21-No39373							X	X		X			
9	JBS.MW5-0.2-0.3	Nov 12, 2021		Soil	S21-No39374								X		X			X
10	JBS.MW5-1-1.1	Nov 12, 2021		Soil	S21-No39375				X				X		X			
11	JBS.MW1-0.2-0.9 ASB	Nov 12, 2021		Soil	S21-No39376	X												
12	JBS.MW2-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39377	X												

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
13	JBS.MW3-0.2-0.7 ASB	Nov 12, 2021		Soil	S21-No39378	X												
14	JBS.MW4-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39379	X												
15	JBS.MW5-0.2-0.3 ASB	Nov 12, 2021		Soil	S21-No39380	X												
16	QSA03	Nov 12, 2021		Soil	S21-No39381		X											
17	RINSATE	Nov 12, 2021		Water	S21-No39382									X				
18	TS	Nov 12, 2021		Water	S21-No39383												X	
19	TB	Nov 12, 2021		Water	S21-No39384				X									
20	JBS.MW1-0.2-0.3	Nov 12, 2021		Soil	S21-No39385			X										

ABN: 50 005 085 521

ABN: 91 05 0159 898

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
21	JBS.MW1-0.5-0.6	Nov 12, 2021		Soil	S21-No39386			X										
22	JBS.MW1-2-2.1	Nov 12, 2021		Soil	S21-No39387			X										
23	JBS.MW1-3-3.1	Nov 12, 2021		Soil	S21-No39388			X										
24	JBS.MW2-0.5-0.6	Nov 12, 2021		Soil	S21-No39389			X										
25	JBS.MW2-1-1.1	Nov 12, 2021		Soil	S21-No39390			X										
26	JBS.MW2-2-2.1	Nov 12, 2021		Soil	S21-No39391			X										
27	JBS.MW2-3.9-	Nov 12, 2021		Soil	S21-No39392			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
27	JBS.MW2-3.9-4	Nov 12, 2021		Soil	S21-No39392													
28	JBS.MW3-0.5-0.6	Nov 12, 2021		Soil	S21-No39393			X										
29	JBS.MW3-1-1.1	Nov 12, 2021		Soil	S21-No39394			X										
30	JBS.MW3-2-2.1	Nov 12, 2021		Soil	S21-No39395			X										
31	JBS.MW3-3-3.1	Nov 12, 2021		Soil	S21-No39396			X										
32	JBS.MW4-0.5-0.6	Nov 12, 2021		Soil	S21-No39397			X										
33	JBS.MW4-1-	Nov 12, 2021		Soil	S21-No39398			X										

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Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polyyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X					X		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
	1.1																	
34	JBS.MW4-3-3.1	Nov 12, 2021		Soil	S21-No39399			X										
35	JBS.MW4-3.9-4	Nov 12, 2021		Soil	S21-No39400			X										
36	JBS.MW5-0.5-0.6	Nov 12, 2021		Soil	S21-No39401			X										
37	JBS.MW5-2-2.1	Nov 12, 2021		Soil	S21-No39402			X										
38	JBS.MW5-3-3.1	Nov 12, 2021		Soil	S21-No39403			X										
39	JBS.MW5-3.9-4	Nov 12, 2021		Soil	S21-No39404			X										

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 9:36 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	841777	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	BTEX	Suite B13: OCP/PCB	SPOCAS Suite	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX	Suite B10A: TRH/BTEX/NV/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA # 1261 Site # 1254													X	X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X		X	X	X		X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											X				X			
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
40	QSA01	Nov 12, 2021		Soil	S21-No39405		X											
41	QSA03	Nov 12, 2021		Soil	S21-No40369					X		X	X		X			
Test Counts						5	2	20	1	1	1	7	11	2	3	6	1	5

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	91			70-130	Pass	
TRH C10-C14	%	71			70-130	Pass	
Naphthalene	%	84			70-130	Pass	

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code		
TRH C6-C10	%	91	70-130	Pass			
TRH >C10-C16	%	71	70-130	Pass			
LCS - % Recovery							
BTEX							
Benzene	%	96	70-130	Pass			
Toluene	%	99	70-130	Pass			
Ethylbenzene	%	97	70-130	Pass			
m&p-Xylenes	%	101	70-130	Pass			
o-Xylene	%	98	70-130	Pass			
Xylenes - Total*	%	100	70-130	Pass			
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	81	70-130	Pass			
Acenaphthylene	%	87	70-130	Pass			
Anthracene	%	86	70-130	Pass			
Benz(a)anthracene	%	81	70-130	Pass			
Benzo(a)pyrene	%	80	70-130	Pass			
Benzo(b&j)fluoranthene	%	72	70-130	Pass			
Benzo(g,h,i)perylene	%	124	70-130	Pass			
Benzo(k)fluoranthene	%	80	70-130	Pass			
Chrysene	%	117	70-130	Pass			
Dibenz(a,h)anthracene	%	130	70-130	Pass			
Fluoranthene	%	74	70-130	Pass			
Fluorene	%	83	70-130	Pass			
Indeno(1,2,3-cd)pyrene	%	77	70-130	Pass			
Naphthalene	%	75	70-130	Pass			
Phenanthrene	%	80	70-130	Pass			
Pyrene	%	74	70-130	Pass			
LCS - % Recovery							
Heavy Metals							
Arsenic	%	116	80-120	Pass			
Cadmium	%	112	80-120	Pass			
Chromium	%	107	80-120	Pass			
Copper	%	105	80-120	Pass			
Lead	%	106	80-120	Pass			
Mercury	%	106	80-120	Pass			
Nickel	%	115	80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TRH C6-C9	S21-No32636	NCP	%	83	70-130	Pass	
Naphthalene	S21-No32636	NCP	%	113	70-130	Pass	
TRH C6-C10	S21-No32636	NCP	%	82	70-130	Pass	
Spike - % Recovery							
BTEX				Result 1			
Benzene	S21-No32636	NCP	%	95	70-130	Pass	
Toluene	S21-No32636	NCP	%	99	70-130	Pass	
Ethylbenzene	S21-No32636	NCP	%	99	70-130	Pass	
m&p-Xylenes	S21-No32636	NCP	%	102	70-130	Pass	
o-Xylene	S21-No32636	NCP	%	100	70-130	Pass	
Xylenes - Total*	S21-No32636	NCP	%	101	70-130	Pass	
Spike - % Recovery							
Polycyclic Aromatic Hydrocarbons				Result 1			
Acenaphthene	S21-No27346	NCP	%	72	70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	S21-No27346	NCP	%	79			70-130	Pass	
Anthracene	S21-No27346	NCP	%	85			70-130	Pass	
Benz(a)anthracene	S21-No27346	NCP	%	81			70-130	Pass	
Benzo(a)pyrene	S21-No27346	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S21-No27346	NCP	%	82			70-130	Pass	
Benzo(g,h,i)perylene	S21-No27346	NCP	%	85			70-130	Pass	
Benzo(k)fluoranthene	S21-No27346	NCP	%	88			70-130	Pass	
Chrysene	S21-No27346	NCP	%	82			70-130	Pass	
Dibenz(a,h)anthracene	S21-No27346	NCP	%	84			70-130	Pass	
Fluoranthene	S21-No27346	NCP	%	75			70-130	Pass	
Fluorene	S21-No27346	NCP	%	82			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No27346	NCP	%	89			70-130	Pass	
Naphthalene	S21-No39382	CP	%	121			70-130	Pass	
Phenanthrene	S21-No27346	NCP	%	82			70-130	Pass	
Pyrene	S21-No27346	NCP	%	75			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-No37897	NCP	%	107			75-125	Pass	
Cadmium	S21-No37897	NCP	%	105			75-125	Pass	
Chromium	S21-No37897	NCP	%	101			75-125	Pass	
Copper	S21-No37897	NCP	%	95			75-125	Pass	
Lead	S21-No37897	NCP	%	100			75-125	Pass	
Mercury	S21-No37897	NCP	%	102			75-125	Pass	
Nickel	S21-No37897	NCP	%	97			75-125	Pass	
Zinc	S21-No37897	NCP	%	106			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No39382	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S21-No36111	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S21-No36111	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S21-No36111	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	S21-No42596	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-No42596	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S21-No36111	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-No36111	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S21-No36111	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No42596	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-No42596	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-No42596	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-No42596	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-No42596	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-No42596	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(k)fluoranthene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chrysene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibenz(a,h)anthracene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluoranthene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluorene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Naphthalene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Phenanthrene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Pyrene	S21-No27624	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No46286	NCP	mg/L	0.016	0.016	1.0	30%	Pass
Cadmium	S21-No46286	NCP	mg/L	0.0005	0.0003	42	30%	Fail Q15
Chromium	S21-No46286	NCP	mg/L	0.050	0.049	2.0	30%	Pass
Copper	S21-No46286	NCP	mg/L	0.021	0.021	1.0	30%	Pass
Lead	S21-No46286	NCP	mg/L	0.019	0.018	6.0	30%	Pass
Mercury	S21-No46286	NCP	mg/L	0.0001	< 0.0001	35	30%	Fail Q15
Nickel	S21-No46286	NCP	mg/L	0.073	0.070	4.0	30%	Pass
Zinc	S21-No46286	NCP	mg/L	0.14	0.14	4.0	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Chain of Custody

PROJECT NO.: 62110	LABORATORY BATCH NO.:
PROJECT NAME: St Peters	SAMPLERS: MN
DATE NEEDED BY: 3 Day	QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3211 5350 Melbourne 03 9642 0599 Adelaide 08 8431 7113	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cbiley@jbsg.com.au; (3) mnaude@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRH/BTEX	PAHs	OC/PCBs	PFAS	TYPE OF ASBESTOS ANALYSIS		NOTES:	
											IDENTIFICATION	NEPM/WA		
1. QSC01	Soil	12/11/21		Bag									X	
2. QSC02	Soil	12/11/21		Jar+PFAS+ASS+Ice		X	X	X	X	X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M Naude DATE: 12/11/21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 12/11/2021 OF:	COOLER SEAL - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> COOLER TEMP ² deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL - Yes..... No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab
1/1

Chain of Custody



PROJECT NO.: 62110					LABORATORY BATCH NO.:				
PROJECT NAME: St Peter					SAMPLERS: MTV				
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) <i>C Bielby</i> @jbsg.com.au; (3) <i>M. Quill</i> @jbsg.com.au									
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: C Bielby to email analysis									
TYPE OF ASBESTOS ANALYSIS									
IDENTIFICATION									
NEPM/WA									
NOTES:									
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH				
QSC01	1	soil	12/11/21	Bag					
QSC02	2	↓	↓	Jar + ice + bag + pfas					
QVC01	3	gas	10/11/21	Carbon tube					
QVC02	4	↓		↓					
RELINQUISHED BY:					METHOD OF SHIPMENT:				
NAME: <i>M. Naudé</i>		DATE: <i>12/10/21</i>			CONSIGNMENT NOTE NO.				
OF: JBS&G					TRANSPORT CO.				
NAME:		DATE:			CONSIGNMENT NOTE NO.				
OF:					TRANSPORT CO.				
RECEIVED BY:					FOR RECEIVING LAB USE ONLY:				
NAME: <i>T SHAN</i>		DATE: <i>12/11/21</i>			COOLER SEAL - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Broken <input type="checkbox"/>				
OF: <i>ELSSYONEY</i>					COOLER TEMP <i>12</i> deg C				
NAME:		DATE:			COOLER SEAL - Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/>				
OF:					COOLER TEMP deg C				

Envirolab Services
 12 Railway St
 Chatswood NSW 2087
 Ph: (02) 9510 0200
 Job No: **282748**
 Date Received: *12/11/21*
 Time Received: *17:30*
 Received By: *TJHAN*
 Temp: Cool/Ambient
 Cooling: Ice/Icepack
 Security: Intact/Broken/None



CERTIFICATE OF ANALYSIS 282748

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	62110, St Peter
Number of Samples	2 x soil
Date samples received	12/11/2021
Date completed instructions received	17/11/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	22/11/2021
Date of Issue	22/11/2021

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Asbestos Approved By

Analysed by Asbestos Approved Analyst: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Alexander Mitchell Maclean, Senior Chemist
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Jeremy Faircloth, Operations Manager, Sydney
Lucy Zhu, Asbestos Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date extracted	-	19/11/2021
Date analysed	-	22/11/2021
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	<3
Surrogate aaa-Trifluorotoluene	%	79

svTRH (C10-C40) in Soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date extracted	-	19/11/2021
Date analysed	-	19/11/2021
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	310
TRH C ₂₉ - C ₃₆	mg/kg	530
Total +ve TRH (C10-C36)	mg/kg	840
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	730
TRH >C ₃₄ -C ₄₀	mg/kg	390
Total +ve TRH (>C10-C40)	mg/kg	1,100
Surrogate o-Terphenyl	%	86

PAHs in Soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date extracted	-	19/11/2021
Date analysed	-	22/11/2021
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.6
Anthracene	mg/kg	0.2
Fluoranthene	mg/kg	1.2
Pyrene	mg/kg	1.3
Benzo(a)anthracene	mg/kg	0.8
Chrysene	mg/kg	0.8
Benzo(b,j+k)fluoranthene	mg/kg	1
Benzo(a)pyrene	mg/kg	1.0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5
Dibenzo(a,h)anthracene	mg/kg	0.1
Benzo(g,h,i)perylene	mg/kg	0.8
Total +ve PAH's	mg/kg	8.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.4
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.4
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.4
Surrogate <i>p</i> -Terphenyl-d14	%	89

Organochlorine Pesticides in soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date extracted	-	19/11/2021
Date analysed	-	22/11/2021
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	0.3
Dieldrin	mg/kg	3.2
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	1.0
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	0.3
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	1.6
Surrogate TCMX	%	94

PCBs in Soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date extracted	-	19/11/2021
Date analysed	-	22/11/2021
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	94

Acid Extractable metals in soil		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date prepared	-	19/11/2021
Date analysed	-	22/11/2021
Arsenic	mg/kg	12
Cadmium	mg/kg	1
Chromium	mg/kg	31
Copper	mg/kg	100
Lead	mg/kg	91
Mercury	mg/kg	0.2
Nickel	mg/kg	27
Zinc	mg/kg	130

Moisture		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date prepared	-	19/11/2021
Date analysed	-	22/11/2021
Moisture	%	9.6

Asbestos ID - soils NEPM - ASB-001		
Our Reference		282748-1
Your Reference	UNITS	QSC01
Date Sampled		12/11/2021
Type of sample		Soil
Date analysed	-	22/11/2021
Sample mass tested	g	836.78
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	—
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001

PFAS in Soils Extended		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Date prepared	-	19/11/2021
Date analysed	-	19/11/2021
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	1.1
Perfluorodecanesulfonic acid	µg/kg	0.3
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 perfluorooctanesulfonamide	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	%	104
Surrogate ¹³ C ₂ PFOA	%	104
Extracted ISTD ¹³ C ₃ PFBS	%	106
Extracted ISTD ¹⁸ O ₂ PFHxS	%	98
Extracted ISTD ¹³ C ₄ PFOS	%	99
Extracted ISTD ¹³ C ₄ PFBA	%	94

PFAS in Soils Extended		
Our Reference		282748-2
Your Reference	UNITS	QSC02
Date Sampled		12/11/2021
Type of sample		Soil
Extracted ISTD ¹³ C ₃ PFPeA	%	100
Extracted ISTD ¹³ C ₂ PFHxA	%	100
Extracted ISTD ¹³ C ₄ PFHpA	%	99
Extracted ISTD ¹³ C ₄ PFOA	%	104
Extracted ISTD ¹³ C ₅ PFNA	%	104
Extracted ISTD ¹³ C ₂ PFDA	%	111
Extracted ISTD ¹³ C ₂ PFUnDA	%	113
Extracted ISTD ¹³ C ₂ PFDoDA	%	100
Extracted ISTD ¹³ C ₂ PFTeDA	%	112
Extracted ISTD ¹³ C ₂ 4:2FTS	%	90
Extracted ISTD ¹³ C ₂ 6:2FTS	%	122
Extracted ISTD ¹³ C ₂ 8:2FTS	%	125
Extracted ISTD ¹³ C ₈ FOSA	%	80
Extracted ISTD d ₃ N MeFOSA	%	85
Extracted ISTD d ₅ N EtFOSA	%	85
Extracted ISTD d ₇ N MeFOSE	%	91
Extracted ISTD d ₉ N EtFOSE	%	85
Extracted ISTD d ₃ N MeFOSAA	%	75
Extracted ISTD d ₅ N EtFOSAA	%	85
Total Positive PFHxS & PFOS	µg/kg	1.1
Total Positive PFOS & PFOA	µg/kg	1.2
Total Positive PFAS	µg/kg	1.5

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	<p>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.</p> <p>Results reported denoted with * are outside our scope of NATA accreditation.</p> <p>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)</p> <p>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.</p> <p>Estimation = Estimated asbestos weight</p> <p>Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.</p>
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	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>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.</p>
Org-020	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>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.</p> <p>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).</p>
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.

Method ID	Methodology Summary
Org-029	<p>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.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>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.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

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	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			22/11/2021	[NT]	[NT]	[NT]	[NT]	22/11/2021	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	89	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	84	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	83	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	78	[NT]	[NT]	[NT]	[NT]	80	[NT]

Client Reference: 62110, St Peter

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[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]	115	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[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]	115	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate o-Terphenyl	%		Org-020	89	[NT]	[NT]	[NT]	[NT]	78	[NT]

Client Reference: 62110, St Peter

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			22/11/2021	[NT]	[NT]	[NT]	[NT]	22/11/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[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]	85	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[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]	94	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[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]	103	[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]	92	[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	100	[NT]	[NT]	[NT]	[NT]	92	[NT]

Client Reference: 62110, St Peter

QUALITY CONTROL: Organochlorine Pesticides in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			22/11/2021	[NT]	[NT]	[NT]	[NT]	22/11/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[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]	85	[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]	87	[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]	98	[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]	88	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[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]	90	[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]	82	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	91	[NT]	[NT]	[NT]	[NT]	90	[NT]

Client Reference: 62110, St Peter

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			22/11/2021	[NT]	[NT]	[NT]	[NT]	22/11/2021	[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]	100	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	91	[NT]	[NT]	[NT]	[NT]	90	[NT]

Client Reference: 62110, St Peter

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			22/11/2021	[NT]	[NT]	[NT]	[NT]	22/11/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	116	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	111	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]

QUALITY CONTROL: PFAS in Soils Extended				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	101	[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]	104	[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]	107	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	110	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	113	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	104	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	113	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
N-Ethyl perfluorooctanesulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
N-Me perfluorooctanesulfonamidethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
N-Et perfluorooctanesulfonamidethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	105	[NT]
MePerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	111	[NT]
EtPerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	109	[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	119	[NT]	[NT]	[NT]	[NT]	116	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	109	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	122	[NT]	[NT]	[NT]	[NT]	118	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
<i>Extracted ISTD d₉ N EtFOSE</i>	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	104	[NT]
<i>Extracted ISTD d₃ N MeFOSAA</i>	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	91	[NT]
<i>Extracted ISTD d₅ N EtFOSAA</i>	%		Org-029	115	[NT]	[NT]	[NT]	[NT]	105	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-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.

1 DAY ADDITIONAL: FW: Eurofins Test Results - Report 841777 : Site ST PETERS (62110)

Ursula Long <UrsulaLong@eurofins.com>

Wed 11/24/2021 9:48 AM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

1 day additional please

Kind regards,

Ursula Long

Analytical Services Manager

Eurofins | Environment Testing

Unit F3, Parkview Building

16 Mars Road

LANE COVE WEST NSW 2066

AUSTRALIA

Mobile: +61 428 845 495

Email : UrsulaLong@eurofins.com

Website: www.eurofins.com.au/environmental-testing

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnviroSampleNSW@eurofins.com or 02 9900 8421 (7am – 12am).

For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Marika Naude <mnaude@jbsg.com.au>

Sent: Wednesday, 24 November 2021 9:46 AM

To: Ursula Long <UrsulaLong@eurofins.com>

Cc: Chris Bielby <CBielby@jbsg.com.au>

Subject: RE: Eurofins Test Results - Report 841777 : Site ST PETERS (62110)

EXTERNAL EMAIL*

Hi Ursula,

Can we please get the following samples analysed on 24 hr TAT for the attached lab batch (841777).

- Total PCBs - JBS.MW3-1.0-1.0.
- TCLP Lead - JBS.MW3-0.2-0.3 and JBS.MW5-0.2-0.3.
- TCLP Nickel - JBS.MW3-0.2-0.3.
- TCLP B(a)P - JBS.MW3-0.2-0.3 and QSA03.

Any issues, please let me know.

Thanks,

Marika



Marika Naude | Environmental Consultant | JBS&G

Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Newcastle | Darwin | Wollongong | Bunbury | Hobart

Level 1, 50 Margaret Street, Sydney NSW 2000

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[Contaminated Land](#) | [Groundwater Remediation](#) | [Approvals and Assessments](#) | [Auditing and Compliance](#) | [Hygiene and Hazardous Materials](#) | [Due Diligence and Liability](#) | [Fire Management Planning](#) | [Stakeholder and Risk](#)

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Marika Naude
Project name: ADDITIONAL: ST PETERS
Project ID: 62110
Turnaround time: 1 Day
Date/Time received: Nov 24, 2021 9:46 AM
Eurofins reference: 844013

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 : 7.4 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Marika Naude - mnaude@jbsg.com.au.



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

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

Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844013
Phone: 02 8245 0300
Fax:

Received: Nov 24, 2021 9:46 AM
Due: Nov 25, 2021
Priority: 1 Day
Contact Name: Marika Naude

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	Lead	Nickel	Polychlorinated Biphenyls	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	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	JBS.MW3-1.0-1.1	Nov 12, 2021		Soil	S21-No59198				X		X
2	JBS.MW3-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59199	X	X	X		X	
3	JBS.MW5-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59200		X			X	
4	QSA03	Nov 12, 2021		US Leachate	S21-No59201	X				X	
Test Counts						2	2	1	1	3	1

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: **Marika Naude**

Report **844013-L**
 Project name **ADDITIONAL: ST PETERS**
 Project ID **62110**
 Received Date **Nov 24, 2021**

Client Sample ID			JBS.MW3-0.2-0.3	JBS.MW5-0.2-0.3	QSA03
Sample Matrix			US Leachate	US Leachate	US Leachate
Eurofins Sample No.			S21-No59199	S21-No59200	S21-No59201
Date Sampled			Nov 12, 2021	Nov 12, 2021	Nov 12, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	< 0.001
Heavy Metals					
Lead	0.01	mg/L	6.2	0.06	-
Nickel	0.01	mg/L	0.06	-	-
USA Leaching Procedure					
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	6.4	5.8	7.9
pH (off)	0.1	pH Units	5.4	5.1	5.5
pH (USA HCl addition)	0.1	pH Units	2.5	2.4	3.0

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
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 24, 2021	7 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 25, 2021	28 Days
USA Leaching Procedure - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Sydney	Nov 24, 2021	14 Days

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844013
Phone: 02 8245 0300
Fax:

Received: Nov 24, 2021 9:46 AM
Due: Nov 25, 2021
Priority: 1 Day
Contact Name: Marika Naude

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	Lead	Nickel	Polychlorinated Biphenyls	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	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	JBS.MW3-1.0-1.1	Nov 12, 2021		Soil	S21-No59198				X		X
2	JBS.MW3-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59199	X	X	X		X	
3	JBS.MW5-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59200		X			X	
4	QSA03	Nov 12, 2021		US Leachate	S21-No59201	X				X	
Test Counts						2	2	1	1	3	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code	
Method Blank										
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene				mg/L	< 0.001		0.001	Pass		
Method Blank										
Heavy Metals										
Lead				mg/L	< 0.01		0.01	Pass		
Nickel				mg/L	< 0.01		0.01	Pass		
LCS - % Recovery										
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene				%	110		70-130	Pass		
LCS - % Recovery										
Heavy Metals										
Lead				%	97		80-120	Pass		
Nickel				%	91		80-120	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery										
Heavy Metals										
Lead				S21-No54194	NCP	%	97	75-125	Pass	
Nickel				S21-No54194	NCP	%	95	75-125	Pass	
Spike - % Recovery										
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene				S21-No59201	CP	%	113	70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate										
Heavy Metals										
Lead				S21-No59192	NCP	mg/L	0.12	0.13	7.0	30% Pass
Nickel				S21-No59192	NCP	mg/L	0.01	0.01	17	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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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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 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
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Attention: **Marika Naude**

Report **844013-S**
 Project name **ADDITIONAL: ST PETERS**
 Project ID **62110**
 Received Date **Nov 24, 2021**

Client Sample ID			JBS.MW3-1.0-1.1
Sample Matrix			Soil
Eurofins Sample No.			S21-No59198
Date Sampled			Nov 12, 2021
Test/Reference	LOR	Unit	
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
Dibutylchloroendate (surr.)	1	%	75
Tetrachloro-m-xylene (surr.)	1	%	89
% Moisture	1	%	34

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

Polychlorinated Biphenyls

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water

% Moisture

- Method: LTM-GEN-7080 Moisture

Testing Site

Sydney

Sydney

Extracted

Nov 24, 2021

Nov 24, 2021

Holding Time

28 Days

14 Days

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 24, 2021 9:46 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	844013	Due:	Nov 25, 2021
Project Name:	ADDITIONAL: ST PETERS	Phone:	02 8245 0300	Priority:	1 Day
Project ID:	62110	Fax:		Contact Name:	Marika Naude

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	Lead	Nickel	Polychlorinated Biphenyls	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	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	JBS.MW3-1.0-1.1	Nov 12, 2021		Soil	S21-No59198				X		X
2	JBS.MW3-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59199	X	X	X		X	
3	JBS.MW5-0.2-0.3	Nov 12, 2021		US Leachate	S21-No59200		X			X	
4	QSA03	Nov 12, 2021		US Leachate	S21-No59201	X				X	
Test Counts						2	2	1	1	3	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
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Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 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											
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		
LCS - % Recovery											
Polychlorinated Biphenyls											
Aroclor-1016				%	95			70-130	Pass		
Aroclor-1260				%	118			70-130	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery											
Polychlorinated Biphenyls											
Aroclor-1016				S21-No59093	NCP	%	82	70-130	Pass		
Aroclor-1260				S21-No59093	NCP	%	98	70-130	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate											
Polychlorinated Biphenyls											
Aroclor-1016				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*				S21-No59089	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate											
							Result 1	Result 2	RPD		
% Moisture				W21-No43361	NCP	%	13	13	<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

Authorised by:

Ursula Long
Andrew Sullivan

Analytical Services Manager
Senior Analyst-Organic (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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



Chain of Custody

Eurofins 170

PROJECT NO.: 6410
 PROJECT NAME: St Peter
 DATE RECEIVED BY: _____
 PHONE: Stoney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
 SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2) cl@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: _____

LABORATORY/BATCH NO.: _____
 SAMPLERS: MN/JP
 LOG LEVEL: NEPM (2013)
 @jbsg.com.au; (3) cl@jbsg.com.au

C. Bobby to email analysis

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH
SV1	grey	19/11/21		Carbon tube	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

842602 (log)

NOTES:

IDENTIFICATION: _____
 ANALYSIS: _____

FOR RECEIVING LAB USE ONLY

COOLER SEAL - Yes No Initial: _____ Broken: _____
 COOLER TEMP - Yes No deg C: _____
 COOLER SEAL - Yes No Initial: _____ Broken: _____
 COOLER TEMP - Yes No deg C: _____

RECEIVED BY: _____
 NAME: _____ DATE: _____
 NAME OF: _____ DATE: _____

METHOD OF SHIPMENT: _____
 CONSIGNMENT NOTE NO: _____
 TRANSPORT CO: _____
 CONSIGNMENT NOTE NO: _____
 TRANSPORT CO: _____

DATE: 12/11/21
 DATE: _____

Evofigs 2/B



Chain of Custody

PROJECT NO: *Q110*
 PROJECT NAME: *ST PETERS*
 DATE RECEIVED BY: *ST PETERS*
 PHONE: Sydney 02 8245 0100 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
 SEND INVOICE & INVOICE TO: (U) admin@jbbsg.com.au; (C) admin@jbbsg.com.au; (B) admin@jbbsg.com.au
 FOR MATHEMATICAL ANALYSIS / STORAGE OR DISPOSAL

LABORATORY BATCH NO: *1502260*
 SAMPLERS: *MN/JP*
 QC LEVEL: *NIPM (2011)*

TYPE OF ANALYSIS: *842602*
 METHOD: *Liquor*

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	NOTES
<i>SV70</i>	<i>gas</i>	<i>19/11/14</i>		<i>Carbon tubes</i>		
<i>21</i>						
<i>22</i>						
<i>23</i>						
<i>24</i>						
<i>25</i>						
<i>26</i>						
<i>27</i>						
<i>28</i>						
<i>29</i>						
<i>30</i>						
<i>31</i>						
<i>32</i>						
<i>33</i>						
<i>34</i>						
<i>35</i>						
<i>36</i>						
<i>37</i>						
<i>38</i>						
<i>39</i>						
<i>40</i>						

RECEIVED BY: *MV Ward* DATE: *27/11/14*
 NAME OF USER: *MV Ward* DATE: *27/11/14*
 NAME OF OFFICE: *MV Ward* DATE: *27/11/14*

FOR RECEIVING LAB USE ONLY:
 COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken
 COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken

METHOD OF SHIPMENT: *Carbon tubes*
 COMMISSIONMENT NOTE NO:
 TRANSPORT CO:
 COMMISSIONMENT NOTE NO:
 TRANSPORT CO:

RECEIVED BY: *MV Ward* DATE: *27/11/14*
 NAME OF USER: *MV Ward* DATE: *27/11/14*
 NAME OF OFFICE: *MV Ward* DATE: *27/11/14*

COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken
 COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken

COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken
 COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken

COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken
 COOLER (K) - Yes No Ho Intact Broken
 COOLER TEMP: Yes No Ho Intact Broken

Eurofins 3/3

PROJECT NO.: *842002*
 PROJECT NAME: *842002*
 DATE RECEIVED BY: *842002*
 PHONE: Sydney 02 8345 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
 SEND REPORT & INVOICE TO: (1) admin@ibsg.com.au; (2) *ibsg.com.au*; (3) *ibsg.com.au*
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	PH
SV41	ga	19/11/19		Carbon tate	
SV42					
QVA01					
QVA02					
FB					
FB					

LABORATORY BATCH NO.:
 SAMPLERS: *MM/JJP*
 QC LEVEL: NERM (2013)
 RECEIVED BY: *NAME: DATE: OF:*
 METHOD OF SHIPMENT:
 CONSIGNMENT NOTE NO:
 TRANSPORT CO:
 CONSIGNMENT NOTE NO:
 TRANSPORT CO:
 NAME: *NAME DATE*
 OF: IBS&G *19/11/19*
 NAME: *NAME DATE*
 OF: *NAME DATE*

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Matthew Parkinson
Project name: ST PETERS
Project ID: 62110
Turnaround time: 3 Day
Date/Time received: Nov 17, 2021 4:10 PM
Eurofins reference: 842602

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Matthew Parkinson - mparkinson@jbsg.com.au.

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	SV1 (FRONT)	Nov 10, 2021		Air	M21-No45988		X	X
2	SV1 (BACK)	Nov 10, 2021		Air	M21-No45989		X	X
3	SV2 (FRONT)	Nov 10, 2021		Air	M21-No45990		X	X
4	SV2 (BACK)	Nov 10, 2021		Air	M21-No45991		X	X
5	SV3 (FRONT)	Nov 10, 2021		Air	M21-No45992		X	X
6	SV3 (BACK)	Nov 10, 2021		Air	M21-No45993		X	X
7	SV4 (FRONT)	Nov 10, 2021		Air	M21-No45994		X	X
8	SV4 (BACK)	Nov 10, 2021		Air	M21-No45995		X	X
9	SV5 (FRONT)	Nov 10, 2021		Air	M21-No45996		X	X

Company Name: JBS & G Australia (NSW) P/L
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NSW 2000

Project Name: ST PETERS
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Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
10	SV5 (BACK)	Nov 10, 2021		Air	M21-No45997		X	X
11	SV6 (FRONT)	Nov 10, 2021		Air	M21-No45998		X	X
12	SV6 (BACK)	Nov 10, 2021		Air	M21-No45999		X	X
13	SV7 (FRONT)	Nov 10, 2021		Air	M21-No46000		X	X
14	SV7 (BACK)	Nov 10, 2021		Air	M21-No46001		X	X
15	SV8 (FRONT)	Nov 10, 2021		Air	M21-No46002		X	X
16	SV8 (BACK)	Nov 10, 2021		Air	M21-No46003		X	X
17	SV9 (FRONT)	Nov 10, 2021		Air	M21-No46004		X	X
18	SV9 (BACK)	Nov 10, 2021		Air	M21-No46005		X	X
19	SV10 (FRONT)	Nov 10, 2021		Air	M21-No46006		X	X

Company Name: JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

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Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
20	SV10 (BACK)	Nov 10, 2021		Air	M21-No46007		X	X
21	SV11 (FRONT)	Nov 10, 2021		Air	M21-No46008		X	X
22	SV11 (BACK)	Nov 10, 2021		Air	M21-No46009		X	X
23	SV12 (FRONT)	Nov 10, 2021		Air	M21-No46010		X	X
24	SV12 (BACK)	Nov 10, 2021		Air	M21-No46011		X	X
25	SV13 (FRONT)	Nov 10, 2021		Air	M21-No46012		X	X
26	SV13 (BACK)	Nov 10, 2021		Air	M21-No46013		X	X
27	SV14 (FRONT)	Nov 10, 2021		Air	M21-No46014		X	X

Company Name: JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

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Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
28	SV14 (BACK)	Nov 10, 2021		Air	M21-No46015		X	X
29	SV15 (FRONT)	Nov 10, 2021		Air	M21-No46016		X	X
30	SV15 (BACK)	Nov 10, 2021		Air	M21-No46017		X	X
31	SV16 (FRONT)	Nov 10, 2021		Air	M21-No46018		X	X
32	SV16 (BACK)	Nov 10, 2021		Air	M21-No46019		X	X
33	SV17 (FRONT)	Nov 10, 2021		Air	M21-No46020		X	X
34	SV17 (BACK)	Nov 10, 2021		Air	M21-No46021		X	X
35	SV18 (FRONT)	Nov 10, 2021		Air	M21-No46022		X	X

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: ST PETERS
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Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
36	SV18 (BACK)	Nov 10, 2021		Air	M21-No46023		X	X
37	SV19 (FRONT)	Nov 10, 2021		Air	M21-No46024		X	X
38	SV19 (BACK)	Nov 10, 2021		Air	M21-No46025		X	X
39	SV20 (FRONT)	Nov 10, 2021		Air	M21-No46026		X	X
40	SV20 (BACK)	Nov 10, 2021		Air	M21-No46027		X	X
41	SV21 (FRONT)	Nov 10, 2021		Air	M21-No46028		X	X
42	SV21 (BACK)	Nov 10, 2021		Air	M21-No46029		X	X
43	SV22 (FRONT)	Nov 10, 2021		Air	M21-No46030		X	X

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

Project Name: ST PETERS
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Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
44	SV22 (BACK)	Nov 10, 2021		Air	M21-No46031		X	X
45	SV23 (FRONT)	Nov 10, 2021		Air	M21-No46032		X	X
46	SV23 (BACK)	Nov 10, 2021		Air	M21-No46033		X	X
47	SV24 (FRONT)	Nov 10, 2021		Air	M21-No46034		X	X
48	SV24 (BACK)	Nov 10, 2021		Air	M21-No46035		X	X
49	SV25 (FRONT)	Nov 10, 2021		Air	M21-No46036		X	X
50	SV25 (BACK)	Nov 10, 2021		Air	M21-No46037		X	X
51	SV26 (FRONT)	Nov 10, 2021		Air	M21-No46038		X	X

Company Name: JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

Project Name: ST PETERS
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Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
52	SV26 (BACK)	Nov 10, 2021		Air	M21-No46039		X	X
53	SV27 (FRONT)	Nov 10, 2021		Air	M21-No46040		X	X
54	SV27 (BACK)	Nov 10, 2021		Air	M21-No46041		X	X
55	SV28 (FRONT)	Nov 10, 2021		Air	M21-No46042		X	X
56	SV28 (BACK)	Nov 10, 2021		Air	M21-No46043		X	X
57	SV29 (FRONT)	Nov 10, 2021		Air	M21-No46044		X	X
58	SV29 (BACK)	Nov 10, 2021		Air	M21-No46045		X	X
59	SV30 (FRONT)	Nov 10, 2021		Air	M21-No46046		X	X

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

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Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
60	SV30 (BACK)	Nov 10, 2021		Air	M21-No46047		X	X
61	SV31 (FRONT)	Nov 10, 2021		Air	M21-No46048		X	X
62	SV31 (BACK)	Nov 10, 2021		Air	M21-No46049		X	X
63	SV32 (FRONT)	Nov 10, 2021		Air	M21-No46050		X	X
64	SV32 (BACK)	Nov 10, 2021		Air	M21-No46051	X		
65	SV33 (FRONT)	Nov 10, 2021		Air	M21-No46052		X	X
66	SV33 (BACK)	Nov 10, 2021		Air	M21-No46053		X	X
67	SV34 (FRONT)	Nov 10, 2021		Air	M21-No46054	X		

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
68	SV34 (BACK)	Nov 10, 2021		Air	M21-No46055		X	X
69	SV35 (FRONT)	Nov 10, 2021		Air	M21-No46056		X	X
70	SV35 (BACK)	Nov 10, 2021		Air	M21-No46057		X	X
71	SV36 (FRONT)	Nov 10, 2021		Air	M21-No46058		X	X
72	SV36 (BACK)	Nov 10, 2021		Air	M21-No46059		X	X
73	SV37 (FRONT)	Nov 10, 2021		Air	M21-No46060		X	X
74	SV37 (BACK)	Nov 10, 2021		Air	M21-No46061		X	X
75	SV38 (FRONT)	Nov 10, 2021		Air	M21-No46062		X	X

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
76	SV38 (BACK)	Nov 10, 2021		Air	M21-No46063		X	X
77	SV39 (FRONT)	Nov 10, 2021		Air	M21-No46064		X	X
78	SV39 (BACK)	Nov 10, 2021		Air	M21-No46065		X	X
79	SV40 (FRONT)	Nov 10, 2021		Air	M21-No46066		X	X
80	SV40 (BACK)	Nov 10, 2021		Air	M21-No46067		X	X
81	SV41 (FRONT)	Nov 10, 2021		Air	M21-No46068		X	X
82	SV41 (BACK)	Nov 10, 2021		Air	M21-No46069		X	X
83	SV42 (FRONT)	Nov 10, 2021		Air	M21-No46070		X	X

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

Project Name: ST PETERS
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Order No.:
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Phone: 02 8245 0300
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Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
84	SV42 (BACK)	Nov 10, 2021		Air	M21-No46071		X	X
85	QVA01 (FRONT)	Nov 10, 2021		Air	M21-No46072		X	X
86	QVA01 (BACK)	Nov 10, 2021		Air	M21-No46073		X	X
87	QVA02 (FRONT)	Nov 10, 2021		Air	M21-No46074		X	X
88	QVA02 (BACK)	Nov 10, 2021		Air	M21-No46075		X	X
89	FB (FRONT)	Nov 10, 2021		Air	M21-No46076		X	X
90	FB (BACK)	Nov 10, 2021		Air	M21-No46077		X	X
91	EB (FRONT)	Nov 10, 2021		Air	M21-No46078		X	X



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

Order No.:
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Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
92	EB (BACK)	Nov 10, 2021		Air	M21-No46079		X	X
Test Counts						2	90	90

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

Attention: Chris Bielby

Report 842602-A
 Project name ST PETERS
 Project ID 62110
 Received Date Nov 17, 2021

Client Sample ID			SV1 (FRONT)	SV1 (BACK)	SV2 (FRONT)	SV2 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45988	M21-No45989	M21-No45990	M21-No45991
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 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)	SV2 (FRONT)	SV2 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45988	M21-No45989	M21-No45990	M21-No45991
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	113	114	112	114
4-Bromofluorobenzene (surr.)	1	%	106	107	107	107
Dibromofluoromethane (surr.)	1	%	107	108	107	108
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

Client Sample ID			SV3 (FRONT)	SV3 (BACK)	SV4 (FRONT)	SV4 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45992	M21-No45993	M21-No45994	M21-No45995
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV3 (FRONT)	SV3 (BACK)	SV4 (FRONT)	SV4 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45992	M21-No45993	M21-No45994	M21-No45995
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	113	114	112	113
4-Bromofluorobenzene (surr.)	1	%	107	108	107	107
Dibromofluoromethane (surr.)	1	%	107	107	107	107
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

Client Sample ID			SV5 (FRONT)	SV5 (BACK)	SV6 (FRONT)	SV6 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45996	M21-No45997	M21-No45998	M21-No45999
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV5 (FRONT)	SV5 (BACK)	SV6 (FRONT)	SV6 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45996	M21-No45997	M21-No45998	M21-No45999
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
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	< 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	%	114	114	112	113
4-Bromofluorobenzene (surr.)	1	%	107	107	106	107
Dibromofluoromethane (surr.)	1	%	107	106	108	108
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV5 (FRONT)	SV5 (BACK)	SV6 (FRONT)	SV6 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No45996	M21-No45997	M21-No45998	M21-No45999
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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

Client Sample ID			SV7 (FRONT)	SV7 (BACK)	SV8 (FRONT)	SV8 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46000	M21-No46001	M21-No46002	M21-No46003
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 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

Client Sample ID			SV7 (FRONT)	SV7 (BACK)	SV8 (FRONT)	SV8 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46000	M21-No46001	M21-No46002	M21-No46003
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	113	113	114	116
4-Bromofluorobenzene (surr.)	1	%	107	107	106	108
Dibromofluoromethane (surr.)	1	%	105	107	108	108
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

Client Sample ID			SV9 (FRONT)	SV9 (BACK)	SV10 (FRONT)	SV10 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46004	M21-No46005	M21-No46006	M21-No46007
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV9 (FRONT)	SV9 (BACK)	SV10 (FRONT)	SV10 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46004	M21-No46005	M21-No46006	M21-No46007
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	115	112	113	113
4-Bromofluorobenzene (surr.)	1	%	107	107	107	106
Dibromofluoromethane (surr.)	1	%	108	108	109	108
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

Client Sample ID			SV11 (FRONT)	SV11 (BACK)	SV12 (FRONT)	SV12 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46008	M21-No46009	M21-No46010	M21-No46011
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV11 (FRONT)	SV11 (BACK)	SV12 (FRONT)	SV12 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46008	M21-No46009	M21-No46010	M21-No46011
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	< 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	%	130	126	129	127
4-Bromofluorobenzene (surr.)	1	%	121	128	125	123
Dibromofluoromethane (surr.)	1	%	112	110	109	111
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

Client Sample ID			SV13 (FRONT)	SV13 (BACK)	SV14 (FRONT)	SV14 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46012	M21-No46013	M21-No46014	M21-No46015
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	0.6	< 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	1.2	< 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	0.6	< 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	3.8	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	130	130	132	128
4-Bromofluorobenzene (surr.)	1	%	123	125	124	123

Client Sample ID			SV13 (FRONT)	SV13 (BACK)	SV14 (FRONT)	SV14 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46012	M21-No46013	M21-No46014	M21-No46015
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromofluoromethane (surr.)	1	%	115	110	112	113
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

Client Sample ID			SV15 (FRONT)	SV15 (BACK)	SV16 (FRONT)	SV16 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46016	M21-No46017	M21-No46018	M21-No46019
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	0.7	< 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	1.4	< 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	1.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	4.1	< 0.5	13	< 0.5
n-Butylbenzene	0.5	Total ug	1.9	< 0.5	0.7	< 0.5

Client Sample ID			SV15 (FRONT)	SV15 (BACK)	SV16 (FRONT)	SV16 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46016	M21-No46017	M21-No46018	M21-No46019
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
n-Propylbenzene	0.5	Total ug	9.9	< 0.5	21	< 0.5
Naphthalene	0.5	Total ug	1.8	< 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	1.0	< 0.5	2.0	< 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	5.2	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	135	137	138	143
4-Bromofluorobenzene (surr.)	1	%	134	131	137	134
Dibromofluoromethane (surr.)	1	%	111	111	112	111
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

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV18 (FRONT)	SV18 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46020	M21-No46021	M21-No46022	M21-No46023
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV18 (FRONT)	SV18 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46020	M21-No46021	M21-No46022	M21-No46023
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	135	126	136	133
4-Bromofluorobenzene (surr.)	1	%	130	132	134	129
Dibromofluoromethane (surr.)	1	%	108	109	107	109
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

Client Sample ID			SV19 (FRONT)	SV19 (BACK)	SV20 (FRONT)	SV20 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46024	M21-No46025	M21-No46026	M21-No46027
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV19 (FRONT)	SV19 (BACK)	SV20 (FRONT)	SV20 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46024	M21-No46025	M21-No46026	M21-No46027
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
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	< 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	%	135	140	131	128
4-Bromofluorobenzene (surr.)	1	%	129	131	129	131
Dibromofluoromethane (surr.)	1	%	107	104	111	110
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV19 (FRONT)	SV19 (BACK)	SV20 (FRONT)	SV20 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46024	M21-No46025	M21-No46026	M21-No46027
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	SV22 (FRONT)	SV22 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46028	M21-No46029	M21-No46030	M21-No46031
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	2.3	< 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	0.8	< 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	2.2	< 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	2.4	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	1.5	< 0.5

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	SV22 (FRONT)	SV22 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46028	M21-No46029	M21-No46030	M21-No46031
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	6.1	< 1.5
Fluorobenzene (surr.)	1	%	115	116	116	116
4-Bromofluorobenzene (surr.)	1	%	107	108	108	108
Dibromofluoromethane (surr.)	1	%	112	110	111	110
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	2.9	< 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

Client Sample ID			SV23 (FRONT)	SV23 (BACK)	SV24 (FRONT)	SV24 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46032	M21-No46033	M21-No46034	M21-No46035
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV23 (FRONT)	SV23 (BACK)	SV24 (FRONT)	SV24 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46032	M21-No46033	M21-No46034	M21-No46035
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	0.9	< 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	%	138	137	144	142
4-Bromofluorobenzene (surr.)	1	%	130	129	130	129
Dibromofluoromethane (surr.)	1	%	109	111	107	110
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

Client Sample ID			SV25 (FRONT)	SV25 (BACK)	SV26 (FRONT)	SV26 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46036	M21-No46037	M21-No46038	M21-No46039
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV25 (FRONT)	SV25 (BACK)	SV26 (FRONT)	SV26 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46036	M21-No46037	M21-No46038	M21-No46039
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	< 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	%	140	140	138	143
4-Bromofluorobenzene (surr.)	1	%	128	128	127	129
Dibromofluoromethane (surr.)	1	%	111	110	112	110
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

Client Sample ID			SV27 (FRONT)	SV27 (BACK)	SV28 (FRONT)	SV28 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46040	M21-No46041	M21-No46042	M21-No46043
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 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	1.0	< 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	%	136	138	141	145
4-Bromofluorobenzene (surr.)	1	%	125	130	129	129

Client Sample ID			SV27 (FRONT)	SV27 (BACK)	SV28 (FRONT)	SV28 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46040	M21-No46041	M21-No46042	M21-No46043
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromofluoromethane (surr.)	1	%	114	113	112	110
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

Client Sample ID			SV29 (FRONT)	SV29 (BACK)	SV30 (FRONT)	SV30 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46044	M21-No46045	M21-No46046	M21-No46047
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 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

Client Sample ID			SV29 (FRONT)	SV29 (BACK)	SV30 (FRONT)	SV30 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46044	M21-No46045	M21-No46046	M21-No46047
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	142	142	145	141
4-Bromofluorobenzene (surr.)	1	%	128	131	132	86
Dibromofluoromethane (surr.)	1	%	112	111	109	111
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

Client Sample ID			SV31 (FRONT)	SV31 (BACK)	SV32 (FRONT)	SV33 (FRONT)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46048	M21-No46049	M21-No46050	M21-No46052
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10		< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5		< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5		< 0.5

Client Sample ID			SV31 (FRONT)	SV31 (BACK)	SV32 (FRONT)	SV33 (FRONT)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46048	M21-No46049	M21-No46050	M21-No46052
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5		< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5		< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5		< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5		< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5		< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5		< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5		< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Styrene	5	Total ug	< 5	< 5		< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5		< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5		< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5		< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5	< 1.5		< 1.5
Fluorobenzene (surr.)	1	%	119	115		115
4-Bromofluorobenzene (surr.)	1	%	109	108		107
Dibromofluoromethane (surr.)	1	%	114	111		110
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5		< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5		< 0.5

Client Sample ID			SV33 (BACK)	SV34 (BACK)	SV35 (FRONT)	SV35 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46053	M21-No46055	M21-No46056	M21-No46057
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10		< 10	< 10

Client Sample ID			SV33 (BACK)	SV34 (BACK)	SV35 (FRONT)	SV35 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46053	M21-No46055	M21-No46056	M21-No46057
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5		< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5		< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5		< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5		< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5		< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5		< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5		< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5		< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5		< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Styrene	5	Total ug	< 5		< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5		< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5		< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5		< 0.5	< 0.5
Xylenes - Total*	1.5	Total ug	< 1.5		< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	114		115	115
4-Bromofluorobenzene (surr.)	1	%	108		107	108
Dibromofluoromethane (surr.)	1	%	112		112	111
1.2-Dichlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5

Client Sample ID			SV33 (BACK)	SV34 (BACK)	SV35 (FRONT)	SV35 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46053	M21-No46055	M21-No46056	M21-No46057
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5		< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5		< 0.5	< 0.5

Client Sample ID			SV36 (FRONT)	SV36 (BACK)	SV37 (FRONT)	SV37 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46058	M21-No46059	M21-No46060	M21-No46061
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 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

Client Sample ID			SV36 (FRONT)	SV36 (BACK)	SV37 (FRONT)	SV37 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46058	M21-No46059	M21-No46060	M21-No46061
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	114	117	114	117
4-Bromofluorobenzene (surr.)	1	%	107	109	108	109
Dibromofluoromethane (surr.)	1	%	111	110	110	110
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

Client Sample ID			SV38 (FRONT)	SV38 (BACK)	SV39 (FRONT)	SV39 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46062	M21-No46063	M21-No46064	M21-No46065
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV38 (FRONT)	SV38 (BACK)	SV39 (FRONT)	SV39 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46062	M21-No46063	M21-No46064	M21-No46065
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	116	115	115	119
4-Bromofluorobenzene (surr.)	1	%	108	108	107	108
Dibromofluoromethane (surr.)	1	%	110	110	112	110
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

Client Sample ID			SV40 (FRONT)	SV40 (BACK)	SV41 (FRONT)	SV41 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46066	M21-No46067	M21-No46068	M21-No46069
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			SV40 (FRONT)	SV40 (BACK)	SV41 (FRONT)	SV41 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46066	M21-No46067	M21-No46068	M21-No46069
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	< 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	%	118	117	143	138
4-Bromofluorobenzene (surr.)	1	%	108	108	86	84
Dibromofluoromethane (surr.)	1	%	110	112	111	112
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

Client Sample ID			SV42 (FRONT)	SV42 (BACK)	QVA01 (FRONT)	QVA01 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46070	M21-No46071	M21-No46072	M21-No46073
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	0.6	< 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	0.7	< 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	%	142	138	129	134
4-Bromofluorobenzene (surr.)	1	%	127	133	129	128

Client Sample ID			SV42 (FRONT)	SV42 (BACK)	QVA01 (FRONT)	QVA01 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46070	M21-No46071	M21-No46072	M21-No46073
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Dibromofluoromethane (surr.)	1	%	111	110	110	110
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

Client Sample ID			QVA02 (FRONT)	QVA02 (BACK)	FB (FRONT)	FB (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46074	M21-No46075	M21-No46076	M21-No46077
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
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	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QVA02 (FRONT)	QVA02 (BACK)	FB (FRONT)	FB (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			M21-No46074	M21-No46075	M21-No46076	M21-No46077
Date Sampled			Nov 10, 2021	Nov 10, 2021	Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
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	%	132	135	131	130
4-Bromofluorobenzene (surr.)	1	%	128	129	127	128
Dibromofluoromethane (surr.)	1	%	109	111	109	109
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

Client Sample ID			EB (FRONT)	EB (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			M21-No46078	M21-No46079
Date Sampled			Nov 10, 2021	Nov 10, 2021
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

Client Sample ID			EB (FRONT)	EB (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			M21-No46078	M21-No46079
Date Sampled			Nov 10, 2021	Nov 10, 2021
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
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
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	%	133	133
4-Bromofluorobenzene (surr.)	1	%	128	128
Dibromofluoromethane (surr.)	1	%	110	109
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

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

Isopropanol

- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS

VOCs in Ambient Air by GC/MS

- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS

Testing Site

Melbourne

Extracted

Nov 19, 2021

Holding Time

14 Days

Melbourne

Nov 19, 2021

14 Days

DRAFT

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	SV1 (FRONT)	Nov 10, 2021		Air	M21-No45988		X	X
2	SV1 (BACK)	Nov 10, 2021		Air	M21-No45989		X	X
3	SV2 (FRONT)	Nov 10, 2021		Air	M21-No45990		X	X
4	SV2 (BACK)	Nov 10, 2021		Air	M21-No45991		X	X
5	SV3 (FRONT)	Nov 10, 2021		Air	M21-No45992		X	X
6	SV3 (BACK)	Nov 10, 2021		Air	M21-No45993		X	X
7	SV4 (FRONT)	Nov 10, 2021		Air	M21-No45994		X	X
8	SV4 (BACK)	Nov 10, 2021		Air	M21-No45995		X	X
9	SV5 (FRONT)	Nov 10, 2021		Air	M21-No45996		X	X

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Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
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Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
10	SV5 (BACK)	Nov 10, 2021		Air	M21-No45997		X	X
11	SV6 (FRONT)	Nov 10, 2021		Air	M21-No45998		X	X
12	SV6 (BACK)	Nov 10, 2021		Air	M21-No45999		X	X
13	SV7 (FRONT)	Nov 10, 2021		Air	M21-No46000		X	X
14	SV7 (BACK)	Nov 10, 2021		Air	M21-No46001		X	X
15	SV8 (FRONT)	Nov 10, 2021		Air	M21-No46002		X	X
16	SV8 (BACK)	Nov 10, 2021		Air	M21-No46003		X	X
17	SV9 (FRONT)	Nov 10, 2021		Air	M21-No46004		X	X
18	SV9 (BACK)	Nov 10, 2021		Air	M21-No46005		X	X
19	SV10 (FRONT)	Nov 10, 2021		Air	M21-No46006		X	X

AFT

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
20	SV10 (BACK)	Nov 10, 2021		Air	M21-No46007		X	X
21	SV11 (FRONT)	Nov 10, 2021		Air	M21-No46008		X	X
22	SV11 (BACK)	Nov 10, 2021		Air	M21-No46009		X	X
23	SV12 (FRONT)	Nov 10, 2021		Air	M21-No46010		X	X
24	SV12 (BACK)	Nov 10, 2021		Air	M21-No46011		X	X
25	SV13 (FRONT)	Nov 10, 2021		Air	M21-No46012		X	X
26	SV13 (BACK)	Nov 10, 2021		Air	M21-No46013		X	X
27	SV14 (FRONT)	Nov 10, 2021		Air	M21-No46014		X	X

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Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
28	SV14 (BACK)	Nov 10, 2021		Air	M21-No46015		X	X
29	SV15 (FRONT)	Nov 10, 2021		Air	M21-No46016		X	X
30	SV15 (BACK)	Nov 10, 2021		Air	M21-No46017		X	X
31	SV16 (FRONT)	Nov 10, 2021		Air	M21-No46018		X	X
32	SV16 (BACK)	Nov 10, 2021		Air	M21-No46019		X	X
33	SV17 (FRONT)	Nov 10, 2021		Air	M21-No46020		X	X
34	SV17 (BACK)	Nov 10, 2021		Air	M21-No46021		X	X
35	SV18 (FRONT)	Nov 10, 2021		Air	M21-No46022		X	X

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
36	SV18 (BACK)	Nov 10, 2021		Air	M21-No46023		X	X
37	SV19 (FRONT)	Nov 10, 2021		Air	M21-No46024		X	X
38	SV19 (BACK)	Nov 10, 2021		Air	M21-No46025		X	X
39	SV20 (FRONT)	Nov 10, 2021		Air	M21-No46026		X	X
40	SV20 (BACK)	Nov 10, 2021		Air	M21-No46027		X	X
41	SV21 (FRONT)	Nov 10, 2021		Air	M21-No46028		X	X
42	SV21 (BACK)	Nov 10, 2021		Air	M21-No46029		X	X
43	SV22 (FRONT)	Nov 10, 2021		Air	M21-No46030		X	X

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Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
44	SV22 (BACK)	Nov 10, 2021		Air	M21-No46031		X	X
45	SV23 (FRONT)	Nov 10, 2021		Air	M21-No46032		X	X
46	SV23 (BACK)	Nov 10, 2021		Air	M21-No46033		X	X
47	SV24 (FRONT)	Nov 10, 2021		Air	M21-No46034		X	X
48	SV24 (BACK)	Nov 10, 2021		Air	M21-No46035		X	X
49	SV25 (FRONT)	Nov 10, 2021		Air	M21-No46036		X	X
50	SV25 (BACK)	Nov 10, 2021		Air	M21-No46037		X	X
51	SV26 (FRONT)	Nov 10, 2021		Air	M21-No46038		X	X

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Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
52	SV26 (BACK)	Nov 10, 2021		Air	M21-No46039		X	X
53	SV27 (FRONT)	Nov 10, 2021		Air	M21-No46040		X	X
54	SV27 (BACK)	Nov 10, 2021		Air	M21-No46041		X	X
55	SV28 (FRONT)	Nov 10, 2021		Air	M21-No46042		X	X
56	SV28 (BACK)	Nov 10, 2021		Air	M21-No46043		X	X
57	SV29 (FRONT)	Nov 10, 2021		Air	M21-No46044		X	X
58	SV29 (BACK)	Nov 10, 2021		Air	M21-No46045		X	X
59	SV30 (FRONT)	Nov 10, 2021		Air	M21-No46046		X	X

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Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
60	SV30 (BACK)	Nov 10, 2021		Air	M21-No46047		X	X
61	SV31 (FRONT)	Nov 10, 2021		Air	M21-No46048		X	X
62	SV31 (BACK)	Nov 10, 2021		Air	M21-No46049		X	X
63	SV32 (FRONT)	Nov 10, 2021		Air	M21-No46050		X	X
64	SV32 (BACK)	Nov 10, 2021		Air	M21-No46051	X		
65	SV33 (FRONT)	Nov 10, 2021		Air	M21-No46052		X	X
66	SV33 (BACK)	Nov 10, 2021		Air	M21-No46053		X	X
67	SV34 (FRONT)	Nov 10, 2021		Air	M21-No46054	X		

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

Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
68	SV34 (BACK)	Nov 10, 2021		Air	M21-No46055		X	X
69	SV35 (FRONT)	Nov 10, 2021		Air	M21-No46056		X	X
70	SV35 (BACK)	Nov 10, 2021		Air	M21-No46057		X	X
71	SV36 (FRONT)	Nov 10, 2021		Air	M21-No46058		X	X
72	SV36 (BACK)	Nov 10, 2021		Air	M21-No46059		X	X
73	SV37 (FRONT)	Nov 10, 2021		Air	M21-No46060		X	X
74	SV37 (BACK)	Nov 10, 2021		Air	M21-No46061		X	X
75	SV38 (FRONT)	Nov 10, 2021		Air	M21-No46062		X	X

AFT

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
76	SV38 (BACK)	Nov 10, 2021		Air	M21-No46063		X	X
77	SV39 (FRONT)	Nov 10, 2021		Air	M21-No46064		X	X
78	SV39 (BACK)	Nov 10, 2021		Air	M21-No46065		X	X
79	SV40 (FRONT)	Nov 10, 2021		Air	M21-No46066		X	X
80	SV40 (BACK)	Nov 10, 2021		Air	M21-No46067		X	X
81	SV41 (FRONT)	Nov 10, 2021		Air	M21-No46068		X	X
82	SV41 (BACK)	Nov 10, 2021		Air	M21-No46069		X	X
83	SV42 (FRONT)	Nov 10, 2021		Air	M21-No46070		X	X

AFT

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ST PETERS
Project ID: 62110

Order No.:
Report #: 842602
Phone: 02 8245 0300
Fax:

Received: Nov 17, 2021 4:10 PM
Due: Nov 22, 2021
Priority: 3 Day
Contact Name: Matthew Parkinson

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
84	SV42 (BACK)	Nov 10, 2021		Air	M21-No46071		X	X
85	QVA01 (FRONT)	Nov 10, 2021		Air	M21-No46072		X	X
86	QVA01 (BACK)	Nov 10, 2021		Air	M21-No46073		X	X
87	QVA02 (FRONT)	Nov 10, 2021		Air	M21-No46074		X	X
88	QVA02 (BACK)	Nov 10, 2021		Air	M21-No46075		X	X
89	FB (FRONT)	Nov 10, 2021		Air	M21-No46076		X	X
90	FB (BACK)	Nov 10, 2021		Air	M21-No46077		X	X
91	EB (FRONT)	Nov 10, 2021		Air	M21-No46078		X	X

AFT

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 17, 2021 4:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	842602	Due:	Nov 22, 2021
Project Name:	ST PETERS	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	62110	Fax:		Contact Name:	Matthew Parkinson
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						CANCELLED	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217								
Brisbane Laboratory - NATA # 1261 Site # 20794								
Mayfield Laboratory - NATA # 1261 Site # 25079								
Perth Laboratory - NATA # 2377 Site # 2370								
External Laboratory								
92	EB (BACK)	Nov 10, 2021		Air	M21-No46079		X	X
Test Counts						2	90	90

AFT

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 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-Dichloropropene	Total ug	< 0.5		0.5	Pass	
1.2.3-Trichloropropene	Total ug	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5		0.5	Pass	
1.3-Dichloropropene	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-Dichloropropene	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	
LCS - % Recovery							
Isopropanol	%	100			70-130	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	83			70-130	Pass	
1.1-Dichloropropene	%	91			70-130	Pass	
1.1.1-Trichloroethane	%	91			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	95			75-125	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	91			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
Toluene	%	99			70-130	Pass	
Trichloroethene	%	90			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
1.2-Dichlorobenzene	%	94			70-130	Pass	
1.2.3-Trichlorobenzene	%	95			70-130	Pass	
1.2.4-Trichlorobenzene	%	95			70-130	Pass	
1.4-Dichlorobenzene	%	94			70-130	Pass	

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Comments**Sample Integrity**

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
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

Authorised by:

Joseph Edouard	Senior Analyst-Organic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

Glenn Jackson
General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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



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CERTIFICATE OF ANALYSIS 282748-A

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	62110, St Peter
Number of Samples	2 x carbon tube
Date samples received	12/11/2021
Date completed instructions received	17/11/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by 24/11/2021

Date of Issue 24/11/2021

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Dragana Tomas, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

VOC in Carbon tubes			
Our Reference		282748-A-3	282748-A-4
Your Reference	UNITS	QVC01	QVC02
Date Sampled		10/11/2021	10/11/2021
Type of sample		Carbon tube	Carbon tube
Date extracted	-	24/11/2021	24/11/2021
Date analysed	-	24/11/2021	24/11/2021
Acetone	µg/tube	<5	<5
Acrylonitrile	µg/tube	<5	<5
Methylethylketone (MEK)	µg/tube	<5	<5
Hexane	µg/tube	<5	<5
Ethylacetate	µg/tube	<5	<5
1,2-Dichloroethane	µg/tube	<5	<5
Benzene	µg/tube	<2	<2
Carbon Tetrachloride	µg/tube	<5	<5
Cyclohexane	µg/tube	<5	<5
Ethylacrylate	µg/tube	<5	<5
Trichloroethene	µg/tube	<5	<5
1,4-Dioxane	µg/tube	<5	<5
Propylene Oxide	µg/tube	<10	<10
Epichlorohydrin	µg/tube	<5	<5
Methylisobutylketone (MIBK)	µg/tube	<5	<5
Toluene	µg/tube	<5	<5
Tetrachloroethene	µg/tube	<5	<5
n-Butylacetate	µg/tube	<5	<5
Chlorobenzene	µg/tube	<5	<5
Ethylbenzene	µg/tube	<5	<5
m+p-Xylene	µg/tube	<10	<10
Styrene	µg/tube	<5	<5
o-Xylene	µg/tube	<5	<5
Cyclohexanone	µg/tube	<5	<5
Nonane	µg/tube	<5	<5
Isopropylbenzene	µg/tube	<5	<5
Diisobutylketone (DIBK)	µg/tube	<5	<5
a-Methylstyrene	µg/tube	<5	<5
Decane	µg/tube	<5	<5
Benzylchloride	µg/tube	<5	<5
Naphthalene	µg/tube	<5	<5
Dodecane	µg/tube	<5	<5
TVOC's as hexane in tubes*	µg/tube	<50	<50
Surrogate Toluene-d8	%	102	113

VOC in Carbon tubes			
Our Reference		282748-A-3	282748-A-4
Your Reference	UNITS	QVC01	QVC02
Date Sampled		10/11/2021	10/11/2021
Type of sample		Carbon tube	Carbon tube
Surrogate 4-Bromofluorobenzene	%	85	90

Method ID	Methodology Summary
ORG-022	<p>Determination of volatile organic compounds in charcoal tubes/badges/sorbents using CS₂ extraction, based on NIOSH methods using GC/GC-MS. Desorption efficiencies are not applied to results in ug/tube.</p> <p>Note where µg/m³ results are supplied for SKC badges, the factors used are for 575-001, if 575-001 data is unavailable for an analyte then use 575-002 then 575-003 (exposure time must be supplied).</p> <p>Note - air volume measurements are not covered by Envirolab's NATA accreditation.</p>

Client Reference: 62110, St Peter

QUALITY CONTROL: VOC in Carbon tubes					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			24/11/2021	[NT]	[NT]	[NT]	[NT]	24/11/2021	[NT]
Date analysed	-			24/11/2021	[NT]	[NT]	[NT]	[NT]	24/11/2021	[NT]
Acetone	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Acrylonitrile	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	109	[NT]
Methylethylketone (MEK)	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	87	[NT]
Hexane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	110	[NT]
Ethylacetate	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,2-Dichloroethane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	112	[NT]
Benzene	µg/tube	2	ORG-022	<2	[NT]	[NT]	[NT]	[NT]	115	[NT]
Carbon Tetrachloride	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	112	[NT]
Cyclohexane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	111	[NT]
Ethylacrylate	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	119	[NT]
Trichloroethene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	109	[NT]
1,4-Dioxane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Propylene Oxide	µg/tube	10	ORG-022	<10	[NT]	[NT]	[NT]	[NT]	116	[NT]
Epichlorohydrin	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	95	[NT]
Methylisobutylketone (MIBK)	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	103	[NT]
Tetrachloroethene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	98	[NT]
n-Butylacetate	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	108	[NT]
Chlorobenzene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	94	[NT]
Ethylbenzene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	95	[NT]
m+p-Xylene	µg/tube	10	ORG-022	<10	[NT]	[NT]	[NT]	[NT]	104	[NT]
Styrene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	94	[NT]
o-Xylene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Cyclohexanone	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	104	[NT]
Nonane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	107	[NT]
Isopropylbenzene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	92	[NT]
Diisobutylketone (DIBK)	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	96	[NT]
a-Methylstyrene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Decane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	123	[NT]
Benzylchloride	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	89	[NT]
Naphthalene	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	99	[NT]
Dodecane	µg/tube	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]
TVOC's as hexane in tubes*	µg/tube	50	ORG-022	<50	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Toluene-d8	%		ORG-022	114	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate 4-Bromofluorobenzene	%		ORG-022	90	[NT]	[NT]	[NT]	[NT]	88	[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.

Chain of Custody



Loc. rec'd 17/11/2021 09:50 am.

PROJECT NO.: 62110					LABORATORY BATCH NO.:						
PROJECT NAME: St Peters					SAMPLERS: MN						
DATE NEEDED BY: 3 Day					QC LEVEL: NEPM (2013)						
PHONE: Sydney 02 8245 0300 Perth 08 9488 0100 Brisbane 07 3211 5350 Melbourne 03 9642 0599 Adelaide 08 8431 7113											
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cbileby@jbsg.com.au; (3) mnaude@jbsg.com.au											
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:						TYPE OF ASBESTOS ANALYSIS				Ref: 282748-A	
						IDENTIFICATION					
						NEPM/WA				NOTES:	
SAMPLE ID		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOCs 860				
3	QVC01	Gas	10/11/21		Carbon Tube		X				
4	QVC02	Gas	10/11/21		Carbon Tube		X				
RELINQUISHED BY:			METHOD OF SHIPMENT:			RECEIVED BY:			FOR RECEIVING LAB USE ONLY:		
NAME:	DATE:		CONSIGNMENT NOTE NO.			NAME:	DATE:		COOLER SEAL - Yes..... No	Intact	Broken
M Naude	12/11/21						12/11/2021				
OF: JBS&G			TRANSPORT CO.			OF:			COOLER TEMP ..12. deg C		
NAME:	DATE:		CONSIGNMENT NOTE NO.			NAME:	DATE:		COOLER SEAL - Yes..... No	Intact	Broken
OF:			TRANSPORT CO			OF:			COOLER TEMP deg C		

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Chris Bielby

Sample Login Details

Your reference	62110, St Peter
Envirolab Reference	282748-A
Date Sample Received	12/11/2021
Date Instructions Received	17/11/2021
Date Results Expected to be Reported	25/11/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	2 x carbon tube
Turnaround Time Requested	3 days
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Sample ID	VOC in Carbon tubes	On Hold
QSC01		✓
QSC02		✓
QVC01	✓	
QVC02	✓	

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.

1 DAY ADDITIONAL: FW: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

Ursula Long <UrsulaLong@eurofins.com>

Thu 11/25/2021 12:25 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>; Ryan Phillips <RyanPhillips@eurofins.com>

1 day TAT additional please on 842906

All 12 samples for TRH

Kind regards,

Ursula Long

Analytical Services Manager

Eurofins | Environment Testing

Unit F3, Parkview Building

16 Mars Road

LANE COVE WEST NSW 2066

AUSTRALIA

Mobile: +61 428 845 495

Email : UrsulaLong@eurofins.com

Website: www.eurofins.com.au/environmental-testing

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 12am).

For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Chris Bielby <CBielby@jbsg.com.au>

Sent: Thursday, 25 November 2021 12:18 PM

To: Emma Beesley <EmmaBeesley@eurofins.com>; Ursula Long <UrsulaLong@eurofins.com>; Andrew Black <AndrewBlack@eurofins.com>

Cc: Milad Noujaim <mnoujaim@jbsg.com.au>

Subject: RE: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

EXTERNAL EMAIL*

Hi, we forgot to request TRH analysis for all these samples. Could you please conduct this analysis asap?

Thanks



Chris Bielby | Associate | JBS&G

Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Newcastle |

Darwin | Wollongong | Bunbury | Hobart

Level 1, 50 Margaret Street, Sydney NSW 2000

T: 02 8245 0300 | M: 0421 216 514 | cbielby@jbsg.com.au | | W: www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Approvals and Assessments | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Fire Management Planning | Stakeholder and Risk Management

JBS&G acknowledges the Traditional Owners and custodians on the land we walk, work and live. We pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

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From: EmmaBeesley@eurofins.com <EmmaBeesley@eurofins.com>
Sent: Wednesday, 24 November 2021 7:42 PM
To: Chris Bielby <CBielby@jbsg.com.au>
Cc: Milad Noujaim <mnoujaim@jbsg.com.au>
Subject: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

*****[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.*****

Please find attached results for your project in the subject header.

Kind Regards,

Emma Beesley
Analytical Services Manager Assistant
Eurofins | Environment Testing

7/7 Friesian Close,
Sandgate, NSW, 2304
Australia

Email: EmmaBeesley@eurofins.com
Website: eurofins.com.au
Mobile: 0429 195 949

Please note my work hours are 2pm-10pm Mon-Fri

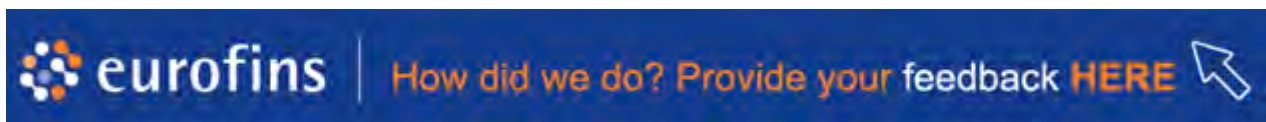
For enquiries outside my work hours please contact another member of our ASM team for assistance

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact
EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 9pm).

For despatch enquiries (eg. courier bookings, bottle orders) please contact
AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

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Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

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NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

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35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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: Chris Bielby
Project name: ADDITIONAL: ST PETERS
Project ID: 62110
Turnaround time: 1 Day
Date/Time received: Nov 25, 2021 12:18 PM
Eurofins reference: 844402

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 : 2.9 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Bielby - cbielby@jbsg.com.au.

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844402
Phone: 02 8245 0300
Fax:

Received: Nov 25, 2021 12:18 PM
Due: Nov 26, 2021
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons	
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217							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	MW01	Nov 15, 2021		Water	S21-No63057		X
2	MW02	Nov 15, 2021		Water	S21-No63058		X
3	MW03	Nov 15, 2021		Water	S21-No63059	X	
4	MW04	Nov 15, 2021		Water	S21-No63060	X	
5	MW05	Nov 15, 2021		Water	S21-No63061	X	
6	JBS-MW01	Nov 15, 2021		Water	S21-No63062	X	
7	JBS-MW02	Nov 15, 2021		Water	S21-No63063	X	
8	JBS-MW03	Nov 15, 2021		Water	S21-No63064	X	
9	JBS-MW04	Nov 15, 2021		Water	S21-No63065	X	

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

Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844402
Phone: 02 8245 0300
Fax:

Received: Nov 25, 2021 12:18 PM
Due: Nov 26, 2021
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
10	JBS-MW05	Nov 15, 2021		Water	S21-No63066	X
11	RINSAYE	Nov 15, 2021		Water	S21-No63067	X
12	QC01	Nov 15, 2021		Water	S21-No63068	X
Test Counts						12

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: **Chris Bielby**

Report **844402-W**
 Project name **ADDITIONAL: ST PETERS**
 Project ID **62110**
 Received Date **Nov 25, 2021**

Client Sample ID			MW01 Water	MW02 Water	MW03 Water	MW04 Water
Sample Matrix			S21-No63057	S21-No63058	S21-No63059	S21-No63060
Eurofins Sample No.			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	0.05	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.17
TRH C15-C28	0.1	mg/L	0.2	< 0.1	0.1	0.4
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.2	< 0.1	0.1	0.57
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	0.05	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	0.03	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	0.2	< 0.1	0.2	0.4
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.2	< 0.1	0.2	0.5

Client Sample ID			MW05 Water	JBS-MW01 Water	JBS-MW02 Water	JBS-MW03 Water
Sample Matrix			S21-No63061	S21-No63062	S21-No63063	S21-No63064
Eurofins Sample No.			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	0.09	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	0.28	< 0.05	< 0.05	0.21
TRH C15-C28	0.1	mg/L	0.7	< 0.1	0.3	0.5
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.98	< 0.1	0.3	0.71
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	0.15	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	0.15	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.34	< 0.05	< 0.05	0.30
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.34	< 0.05	< 0.05	0.3
TRH >C16-C34	0.1	mg/L	0.6	0.2	0.4	0.5
TRH >C34-C40	0.1	mg/L	0.1	< 0.1	0.1	0.1
TRH >C10-C40 (total)*	0.1	mg/L	1.04	0.2	0.5	0.9

Client Sample ID			JBS-MW04	JBS-MW05	RINSATE	QC01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-No63065	S21-No63066	S21-No63067	S21-No63068
Date Sampled			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	0.03	< 0.02	< 0.02	0.04
TRH C10-C14	0.05	mg/L	1.3	0.09	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	1.4	< 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	2.7	< 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	0.15	< 0.02	< 0.02	0.04
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	0.14	< 0.02	< 0.02	0.02
TRH >C10-C16	0.05	mg/L	1.3	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	1.3	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	1.6	0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	0.5	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	3.4	0.1	< 0.1	< 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
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 25, 2021 12:18 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	844402	Due:	Nov 26, 2021
Project Name:	ADDITIONAL: ST PETERS	Phone:	02 8245 0300	Priority:	1 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Total Recoverable Hydrocarbons
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
1	MW01	Nov 15, 2021		Water	S21-No63057	X
2	MW02	Nov 15, 2021		Water	S21-No63058	X
3	MW03	Nov 15, 2021		Water	S21-No63059	X
4	MW04	Nov 15, 2021		Water	S21-No63060	X
5	MW05	Nov 15, 2021		Water	S21-No63061	X
6	JBS-MW01	Nov 15, 2021		Water	S21-No63062	X
7	JBS-MW02	Nov 15, 2021		Water	S21-No63063	X
8	JBS-MW03	Nov 15, 2021		Water	S21-No63064	X
9	JBS-MW04	Nov 15, 2021		Water	S21-No63065	X

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

Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844402
Phone: 02 8245 0300
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Received: Nov 25, 2021 12:18 PM
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Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
10	JBS-MW05	Nov 15, 2021		Water	S21-No63066	X
11	RINSAYE	Nov 15, 2021		Water	S21-No63067	X
12	QC01	Nov 15, 2021		Water	S21-No63068	X
Test Counts						12

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 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		
LCS - % Recovery											
Total Recoverable Hydrocarbons											
TRH C6-C9				%	127			70-130	Pass		
TRH C10-C14				%	91			70-130	Pass		
Naphthalene				%	102			70-130	Pass		
TRH C6-C10				%	123			70-130	Pass		
TRH >C10-C16				%	88			70-130	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No56153	NCP	%	96		70-130	Pass	
TRH >C10-C16				S21-No56153	NCP	%	90		70-130	Pass	
Spike - % Recovery											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No63067	CP	%	95		70-130	Pass	
TRH >C10-C16				S21-No63067	CP	%	91		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate											
Total Recoverable Hydrocarbons											
TRH C6-C9				S21-No52057	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
TRH C10-C14				S21-No59204	NCP	mg/L	< 0.05	0.08	84	30%	Fail Q15
TRH C15-C28				S21-No59204	NCP	mg/L	0.3	0.4	41	30%	Fail Q15
TRH C29-C36				S21-No59204	NCP	mg/L	0.2	0.3	36	30%	Fail Q15
Naphthalene				S21-No52057	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10				S21-No52057	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
TRH >C10-C16				S21-No59204	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34				S21-No59204	NCP	mg/L	0.4	0.6	36	30%	Fail Q15
TRH >C34-C40				S21-No59204	NCP	mg/L	< 0.1	0.1	78	30%	Fail Q15
Duplicate											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No63066	CP	mg/L	0.09	0.06	38	30%	Fail Q15
TRH C15-C28				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C10-C16				S21-No63066	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34				S21-No63066	CP	mg/L	0.1	< 0.1	26	30%	Pass
TRH >C34-C40				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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.

1 DAY ADDITIONAL: FW: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

Ursula Long <UrsulaLong@eurofins.com>

Thu 11/25/2021 12:25 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>; Ryan Phillips <RyanPhillips@eurofins.com>

1 day TAT additional please on 842906

All 12 samples for TRH

Kind regards,

Ursula Long

Analytical Services Manager

Eurofins | Environment Testing

Unit F3, Parkview Building

16 Mars Road

LANE COVE WEST NSW 2066

AUSTRALIA

Mobile: +61 428 845 495

Email : UrsulaLong@eurofins.com

Website: www.eurofins.com.au/environmental-testing

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 12am).

For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Chris Bielby <CBielby@jbsg.com.au>

Sent: Thursday, 25 November 2021 12:18 PM

To: Emma Beesley <EmmaBeesley@eurofins.com>; Ursula Long <UrsulaLong@eurofins.com>; Andrew Black <AndrewBlack@eurofins.com>

Cc: Milad Noujaim <mnoujaim@jbsg.com.au>

Subject: RE: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

EXTERNAL EMAIL*

Hi, we forgot to request TRH analysis for all these samples. Could you please conduct this analysis asap?

Thanks



Chris Bielby | Associate | JBS&G

Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Newcastle |

Darwin | Wollongong | Bunbury | Hobart

Level 1, 50 Margaret Street, Sydney NSW 2000

T: 02 8245 0300 | M: 0421 216 514 | cbielby@jbsg.com.au | | W: www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Approvals and Assessments | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Fire Management Planning | Stakeholder and Risk Management

JBS&G acknowledges the Traditional Owners and custodians on the land we walk, work and live. We pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

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From: EmmaBeesley@eurofins.com <EmmaBeesley@eurofins.com>
Sent: Wednesday, 24 November 2021 7:42 PM
To: Chris Bielby <CBielby@jbsg.com.au>
Cc: Milad Noujaim <mnoujaim@jbsg.com.au>
Subject: Eurofins Test Results - Report 842906 : Site ST PETERS (62110)

*****[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.*****

Please find attached results for your project in the subject header.

Kind Regards,

Emma Beesley
Analytical Services Manager Assistant
Eurofins | Environment Testing

7/7 Friesian Close,
Sandgate, NSW, 2304
Australia

Email: EmmaBeesley@eurofins.com
Website: eurofins.com.au
Mobile: 0429 195 949

Please note my work hours are 2pm-10pm Mon-Fri

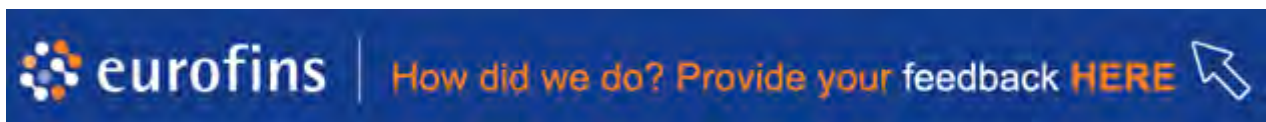
For enquiries outside my work hours please contact another member of our ASM team for assistance

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact
EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 9pm).

For despatch enquiries (eg. courier bookings, bottle orders) please contact
AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

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* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne
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Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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NATA # 2377 Site # 2370

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: Chris Bielby
Project name: ADDITIONAL: ST PETERS
Project ID: 62110
Turnaround time: 1 Day
Date/Time received: Nov 25, 2021 12:18 PM
Eurofins reference: 844402

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 : 2.9 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Bielby - cbielby@jbsg.com.au.

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

Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844402
Phone: 02 8245 0300
Fax:

Received: Nov 25, 2021 12:18 PM
Due: Nov 26, 2021
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons	
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217							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	MW01	Nov 15, 2021		Water	S21-No63057		X
2	MW02	Nov 15, 2021		Water	S21-No63058		X
3	MW03	Nov 15, 2021		Water	S21-No63059	X	
4	MW04	Nov 15, 2021		Water	S21-No63060	X	
5	MW05	Nov 15, 2021		Water	S21-No63061	X	
6	JBS-MW01	Nov 15, 2021		Water	S21-No63062	X	
7	JBS-MW02	Nov 15, 2021		Water	S21-No63063	X	
8	JBS-MW03	Nov 15, 2021		Water	S21-No63064	X	
9	JBS-MW04	Nov 15, 2021		Water	S21-No63065	X	



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

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Melbourne
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NATA # 1261 Site # 1254

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NATA # 1261 Site # 18217

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NATA # 2377 Site # 2370

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IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: ADDITIONAL: ST PETERS
Project ID: 62110

Order No.:
Report #: 844402
Phone: 02 8245 0300
Fax:

Received: Nov 25, 2021 12:18 PM
Due: Nov 26, 2021
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
10	JBS-MW05	Nov 15, 2021		Water	S21-No63066	X
11	RINSAYE	Nov 15, 2021		Water	S21-No63067	X
12	QC01	Nov 15, 2021		Water	S21-No63068	X
Test Counts						12

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: **Chris Bielby**

Report **844402-W**
 Project name **ADDITIONAL: ST PETERS**
 Project ID **62110**
 Received Date **Nov 25, 2021**

Client Sample ID			MW01 Water	MW02 Water	MW03 Water	MW04 Water
Sample Matrix			S21-No63057	S21-No63058	S21-No63059	S21-No63060
Eurofins Sample No.			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	0.05	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.17
TRH C15-C28	0.1	mg/L	0.2	< 0.1	0.1	0.4
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.2	< 0.1	0.1	0.57
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	0.05	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	0.03	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	0.2	< 0.1	0.2	0.4
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.2	< 0.1	0.2	0.5

Client Sample ID			MW05 Water	JBS-MW01 Water	JBS-MW02 Water	JBS-MW03 Water
Sample Matrix			S21-No63061	S21-No63062	S21-No63063	S21-No63064
Eurofins Sample No.			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	0.09	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	0.28	< 0.05	< 0.05	0.21
TRH C15-C28	0.1	mg/L	0.7	< 0.1	0.3	0.5
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.98	< 0.1	0.3	0.71
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	0.15	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	0.15	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.34	< 0.05	< 0.05	0.30
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.34	< 0.05	< 0.05	0.3
TRH >C16-C34	0.1	mg/L	0.6	0.2	0.4	0.5
TRH >C34-C40	0.1	mg/L	0.1	< 0.1	0.1	0.1
TRH >C10-C40 (total)*	0.1	mg/L	1.04	0.2	0.5	0.9

Client Sample ID			JBS-MW04	JBS-MW05	RINSATE	QC01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-No63065	S21-No63066	S21-No63067	S21-No63068
Date Sampled			Nov 15, 2021	Nov 15, 2021	Nov 15, 2021	Nov 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	0.03	< 0.02	< 0.02	0.04
TRH C10-C14	0.05	mg/L	1.3	0.09	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	1.4	< 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	2.7	< 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	0.15	< 0.02	< 0.02	0.04
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	0.14	< 0.02	< 0.02	0.02
TRH >C10-C16	0.05	mg/L	1.3	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	1.3	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	1.6	0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	0.5	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	3.4	0.1	< 0.1	< 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
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 25, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 26, 2021	7 Days

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 25, 2021 12:18 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	844402	Due:	Nov 26, 2021
Project Name:	ADDITIONAL: ST PETERS	Phone:	02 8245 0300	Priority:	1 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Total Recoverable Hydrocarbons
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
1	MW01	Nov 15, 2021		Water	S21-No63057	X
2	MW02	Nov 15, 2021		Water	S21-No63058	X
3	MW03	Nov 15, 2021		Water	S21-No63059	X
4	MW04	Nov 15, 2021		Water	S21-No63060	X
5	MW05	Nov 15, 2021		Water	S21-No63061	X
6	JBS-MW01	Nov 15, 2021		Water	S21-No63062	X
7	JBS-MW02	Nov 15, 2021		Water	S21-No63063	X
8	JBS-MW03	Nov 15, 2021		Water	S21-No63064	X
9	JBS-MW04	Nov 15, 2021		Water	S21-No63065	X

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Nov 25, 2021 12:18 PM
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Project Name:	ADDITIONAL: ST PETERS	Phone:	02 8245 0300	Priority:	1 Day
Project ID:	62110	Fax:		Contact Name:	Chris Bielby
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217						
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
10	JBS-MW05	Nov 15, 2021		Water	S21-No63066	
11	RINSAYE	Nov 15, 2021		Water	S21-No63067	
12	QC01	Nov 15, 2021		Water	S21-No63068	
Test Counts						

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Method Blank											
Total Recoverable Hydrocarbons											
TRH C6-C9				mg/L	< 0.02			0.02	Pass		
TRH C10-C14				mg/L	< 0.05			0.05	Pass		
TRH C15-C28				mg/L	< 0.1			0.1	Pass		
TRH C29-C36				mg/L	< 0.1			0.1	Pass		
Naphthalene				mg/L	< 0.01			0.01	Pass		
TRH C6-C10				mg/L	< 0.02			0.02	Pass		
TRH >C10-C16				mg/L	< 0.05			0.05	Pass		
TRH >C16-C34				mg/L	< 0.1			0.1	Pass		
TRH >C34-C40				mg/L	< 0.1			0.1	Pass		
LCS - % Recovery											
Total Recoverable Hydrocarbons											
TRH C6-C9				%	127			70-130	Pass		
TRH C10-C14				%	91			70-130	Pass		
Naphthalene				%	102			70-130	Pass		
TRH C6-C10				%	123			70-130	Pass		
TRH >C10-C16				%	88			70-130	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No56153	NCP	%	96		70-130	Pass	
TRH >C10-C16				S21-No56153	NCP	%	90		70-130	Pass	
Spike - % Recovery											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No63067	CP	%	95		70-130	Pass	
TRH >C10-C16				S21-No63067	CP	%	91		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate											
Total Recoverable Hydrocarbons											
TRH C6-C9				S21-No52057	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
TRH C10-C14				S21-No59204	NCP	mg/L	< 0.05	0.08	84	30%	Fail Q15
TRH C15-C28				S21-No59204	NCP	mg/L	0.3	0.4	41	30%	Fail Q15
TRH C29-C36				S21-No59204	NCP	mg/L	0.2	0.3	36	30%	Fail Q15
Naphthalene				S21-No52057	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10				S21-No52057	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
TRH >C10-C16				S21-No59204	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34				S21-No59204	NCP	mg/L	0.4	0.6	36	30%	Fail Q15
TRH >C34-C40				S21-No59204	NCP	mg/L	< 0.1	0.1	78	30%	Fail Q15
Duplicate											
Total Recoverable Hydrocarbons											
TRH C10-C14				S21-No63066	CP	mg/L	0.09	0.06	38	30%	Fail Q15
TRH C15-C28				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C10-C16				S21-No63066	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34				S21-No63066	CP	mg/L	0.1	< 0.1	26	30%	Pass
TRH >C34-C40				S21-No63066	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CERTIFICATE OF ANALYSIS 282961

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	62110, St Peters
Number of Samples	1 Water
Date samples received	16/11/2021
Date completed instructions received	16/11/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	23/11/2021
Date of Issue	23/11/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Greta Petzold, Senior Report Coordinator
 Josh Williams, LC Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

HM in water - dissolved		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Date prepared	-	19/11/2021
Date analysed	-	19/11/2021
Arsenic-Dissolved	µg/L	1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	2

VOCs in water		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Date extracted	-	17/11/2021
Date analysed	-	18/11/2021
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	3
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	19
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		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
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	%	99
Surrogate 4-BFB	%	104

SVOC's in water		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Date extracted	-	17/11/2021
Date analysed	-	18/11/2021
Phenol	µg/L	<2
Bis (2-chloroethyl) ether	µg/L	<5
2-Chlorophenol	µg/L	<2
1,3-Dichlorobenzene	µg/L	<2
1,4-Dichlorobenzene	µg/L	<2
2-Methylphenol	µg/L	<2
1,2-Dichlorobenzene	µg/L	<2
bis-(2-Chloroisopropyl) ether	µg/L	<5
3/4-Methylphenol	µg/L	<4
N-nitrosodi-n-propylamine	µg/L	<5
Hexachloroethane	µg/L	<2
Nitrobenzene	µg/L	<5
Isophorone	µg/L	<5
2,4-Dimethylphenol	µg/L	<2
2-Nitrophenol	µg/L	<2
bis (2-Chloroethoxy) methane	µg/L	<5
2,4-Dichlorophenol	µg/L	<2
1,2,4-Trichlorobenzene	µg/L	<2
Naphthalene	µg/L	<2
4-Chloroaniline	µg/L	<5
4-Chloro-3-methylphenol	µg/L	<10
Hexachlorobutadiene	µg/L	<2
2-Methylnaphthalene	µg/L	<2
Hexachlorocyclopentadiene	µg/L	<5
2,4,6-Trichlorophenol	µg/L	<2
2,4,5-Trichlorophenol	µg/L	<2
2-Chloronaphthalene	µg/L	<2
2-Nitroaniline	µg/L	<5
Dimethyl phthalate	µg/L	<10
2,6-Dinitrotoluene	µg/L	<5
Acenaphthylene	µg/L	<2
3-Nitroaniline	µg/L	<5
Acenaphthene	µg/L	<2
2,4-Dinitrophenol	µg/L	<20

SVOC's in water		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
4-Nitrophenol	µg/L	<20
Dibenzofuran	µg/L	<5
Diethylphthalate	µg/L	<10
4-Chlorophenylphenylether	µg/L	<5
4-Nitroaniline	µg/L	<5
Fluorene	µg/L	<2
2-methyl-4,6-dinitrophenol	µg/L	<20
Azobenzene	µg/L	<5
4-Bromophenylphenylether	µg/L	<5
Hexachlorobenzene	µg/L	<2
Pentachlorophenol	µg/L	<10
Phenanthrene	µg/L	<2
Anthracene	µg/L	<2
Carbazole	µg/L	<5
Di-n-butylphthalate	µg/L	<10
Fluoranthene	µg/L	<2
Pyrene	µg/L	<2
Butylbenzylphthalate	µg/L	<10
Bis(2-ethylhexyl) phthalate	µg/L	<50
Benzo(a)anthracene	µg/L	<2
Chrysene	µg/L	<2
Di-n-octylphthalate	µg/L	<10
Benzo(b,j+k)fluoranthene	µg/L	<4
Benzo(a)pyrene	µg/L	<2
Indeno(1,2,3-c,d)pyrene	µg/L	<2
Dibenzo(a,h)anthracene	µg/L	<2
Benzo(g,h,i)perylene	µg/L	<2
Ethylmethanesulfonate	µg/L	<5
Aniline	µg/L	<5
Pentachloroethane	µg/L	<2
Benzyl alcohol	µg/L	<5
Acetophenone	µg/L	<5
N-nitrosomorpholine	µg/L	<5
N-nitrosopiperidine	µg/L	<5
2,6-Dichlorophenol	µg/L	<2
Hexachloropropene-1	µg/L	<2
N-nitroso-n-butylamine	µg/L	<5

SVOC's in water		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Safrole	µg/L	<5
1,2,4,5-Tetrachlorobenzene	µg/L	<2
Trans/Cis-iso-safrole	µg/L	<5
1,3-Dinitrobenzene	µg/L	<5
Pentachlorobenzene	µg/L	<2
1-Naphthylamine	µg/L	<5
2,3,4,6-Tetrachlorophenol	µg/L	<2
2-Naphthylamine	µg/L	<5
5-Nitro-o-toluidine	µg/L	<5
Diphenylamine	µg/L	<5
Phenacetin	µg/L	<5
Pentachloronitrobenzene	µg/L	<5
Dinoseb	µg/L	<10
Methapyrilene	µg/L	<10
p-Dimethylaminoazobenzene	µg/L	<5
2-Acetylaminofluorene	µg/L	<2
7,12-Dimethylbenz(a)anthracene	µg/L	<2
3-Methylcholanthrene	µg/L	<2
a-BHC	µg/L	<2
b-BHC	µg/L	<2
g-BHC	µg/L	<2
d-BHC	µg/L	<2
Heptachlor	µg/L	<2
Aldrin	µg/L	<2
Heptachlor Epoxide	µg/L	<2
g-Chlordane	µg/L	<2
a-Chlordane	µg/L	<2
Endosulfan I	µg/L	<2
p,p'-DDE	µg/L	<2
Dieldrin	µg/L	<2
Endrin	µg/L	<2
p,p'-DDD	µg/L	<2
Endosulfan II	µg/L	<2
Endrin Aldehyde	µg/L	<2
p,p'-DDT	µg/L	<2
Endosulfan Sulphate	µg/L	<2
Endrin Ketone	µg/L	<2

SVOC's in water		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Methoxychlor	µg/L	<2
Dichlorvos	µg/L	<2
Mevinphos	µg/L	<2
Phorate	µg/L	<2
Dimethoate	µg/L	<2
Diazinon (dimpylate)	µg/L	<2
Disulfoton	µg/L	<2
Chloropyriphos-methyl	µg/L	<2
Parathion-methyl	µg/L	<2
Ronnel (fenchlorphos)	µg/L	<2
Fenitrothion	µg/L	<2
Malathion (Maldison)	µg/L	<2
Chloropyriphos	µg/L	<2
Fenthion	µg/L	<2
Parathion (parathion-ethyl)	µg/L	<2
Bromopho Ethyl	µg/L	<2
Methidathion	µg/L	<2
Fenamiphos (Phenamiphos)	µg/L	<2
Ethion	µg/L	<2
Phosalone	µg/L	<2
Azinphos methyl (Guthion)	µg/L	<2
Coumaphos (Co-Ral)	µg/L	<2
Surrogate 2-fluorophenol	%	40
Surrogate Phenol-d ₆	%	27
Surrogate Nitrobenzene-d ₅	%	74
Surrogate 2-fluorobiphenyl	%	74
Surrogate 2,4,6-Tribromophenol	%	71
Surrogate p-Terphenyl-d ₁₄	%	88

PFAS in Waters Short		
Our Reference		282961-1
Your Reference	UNITS	QA01
Date Sampled		15/11/2021
Type of sample		Water
Date prepared	-	17/11/2021
Date analysed	-	17/11/2021
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.03
Perfluorooctanesulfonic acid PFOS	µg/L	0.02
Perfluorooctanoic acid PFOA	µg/L	0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
Surrogate ¹³ C ₈ PFOS	%	99
Surrogate ¹³ C ₂ PFOA	%	110
Extracted ISTD ¹⁸ O ₂ PFHxS	%	101
Extracted ISTD ¹³ C ₄ PFOS	%	88
Extracted ISTD ¹³ C ₄ PFOA	%	93
Extracted ISTD ¹³ C ₂ 6:2FTS	%	81
Extracted ISTD ¹³ C ₂ 8:2FTS	%	84
Total Positive PFHxS & PFOS	µg/L	0.05
Total Positive PFOA & PFOS	µg/L	0.03
Total Positive PFAS	µg/L	0.06

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-029	<p>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.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>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.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

Client Reference: 62110, St Peters

QUALITY CONTROL: HM in water - dissolved				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Date analysed	-			19/11/2021	[NT]	[NT]	[NT]	[NT]	19/11/2021	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	101	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: VOCs in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			17/11/2021	1	17/11/2021	18/11/2021		17/11/2021	[NT]
Date analysed	-			18/11/2021	1	18/11/2021	18/11/2021		18/11/2021	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	1	<10	<10	0	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	83	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	1	<1	<1	0	89	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	84	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	85	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	1	3	2	40	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	1	19	19	0	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	99	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	80	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	1	1	1	0	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	1	<1	<1	0	78	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	1	<1	<1	0	84	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	[NT]	[NT]
Styrene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: VOCs in water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	1	98	111	12	102	[NT]
Surrogate toluene-d8	%		Org-023	99	1	99	105	6	100	[NT]
Surrogate 4-BFB	%		Org-023	101	1	104	90	14	100	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: SVOC's in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	282961-1
Date extracted	-			17/11/2021	1	17/11/2021	17/11/2021		17/11/2021	17/11/2021
Date analysed	-			18/11/2021	1	18/11/2021	18/11/2021		18/11/2021	18/11/2021
Phenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	44	42
Bis (2-chloroethyl) ether	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2-Chlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	92	86
1,3-Dichlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
1,4-Dichlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2-Methylphenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	28	34
1,2-Dichlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
bis-(2-Chloroisopropyl) ether	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
3/4-Methylphenol	µg/L	4	Org-022/025	<4	1	<4	<4	0	[NT]	[NT]
N-nitrosodi-n-propylamine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Hexachloroethane	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Nitrobenzene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Isophorone	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2,4-Dimethylphenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2-Nitrophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
bis (2-Chloroethoxy) methane	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2,4-Dichlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
1,2,4-Trichlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Naphthalene	µg/L	2	Org-022/025	<2	1	<2	<2	0	98	94
4-Chloroaniline	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
4-Chloro-3-methylphenol	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Hexachlorobutadiene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2-Methylnaphthalene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Hexachlorocyclopentadiene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2,4,6-Trichlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2,4,5-Trichlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2-Chloronaphthalene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
2-Nitroaniline	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Dimethyl phthalate	µg/L	10	Org-022/025	<10	1	<10	<10	0	104	101
2,6-Dinitrotoluene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Acenaphthylene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
3-Nitroaniline	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Acenaphthene	µg/L	2	Org-022/025	<2	1	<2	<2	0	94	88
2,4-Dinitrophenol	µg/L	20	Org-022/025	<20	1	<20	<20	0	[NT]	[NT]
4-Nitrophenol	µg/L	20	Org-022/025	<20	1	<20	<20	0	56	28
Dibenzofuran	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Diethylphthalate	µg/L	10	Org-022/025	<10	1	<10	<10	0	122	120
4-Chlorophenylphenylether	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: SVOC's in water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	282961-1
4-Nitroaniline	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Fluorene	µg/L	2	Org-022/025	<2	1	<2	<2	0	106	100
2-methyl-4,6-dinitrophenol	µg/L	20	Org-022/025	<20	1	<20	<20	0	[NT]	[NT]
Azobenzene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
4-Bromophenylphenylether	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Hexachlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Pentachlorophenol	µg/L	10	Org-022/025	<10	1	<10	<10	0	36	44
Phenanthrene	µg/L	2	Org-022/025	<2	1	<2	<2	0	94	92
Anthracene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Carbazole	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Di-n-butylphthalate	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Fluoranthene	µg/L	2	Org-022/025	<2	1	<2	<2	0	112	100
Pyrene	µg/L	2	Org-022/025	<2	1	<2	<2	0	112	98
Butylbenzylphthalate	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Bis(2-ethylhexyl) phthalate	µg/L	50	Org-022/025	<50	1	<50	<50	0	[NT]	[NT]
Benzo(a)anthracene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Chrysene	µg/L	2	Org-022/025	<2	1	<2	<2	0	78	70
Di-n-octylphthalate	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	µg/L	4	Org-022/025	<4	1	<4	<4	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	2	Org-022/025	<2	1	<2	<2	0	100	92
Indeno(1,2,3-c,d)pyrene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Ethylmethanesulfonate	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Aniline	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Pentachloroethane	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Benzyl alcohol	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Acetophenone	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
N-nitrosomorpholine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
N-nitrosopiperidine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2,6-Dichlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Hexachloropropene-1	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
N-nitroso-n-butylamine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Safrole	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
1,2,4,5-Tetrachlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Trans/Cis-iso-safrole	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
1,3-Dinitrobenzene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Pentachlorobenzene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
1-Naphthylamine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: SVOC's in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	282961-1
2-Naphthylamine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
5-Nitro-o-toluidine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Diphenylamine	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Phenacetin	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Pentachloronitrobenzene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
Dinoseb	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Methapyrilene	µg/L	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
p-Dimethylaminoazobenzene	µg/L	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2-Acetylaminofluorene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
7,12-Dimethylbenz(a)anthracene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
3-Methylcholanthrene	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
a-BHC	µg/L	2	Org-022/025	<2	1	<2	<2	0	100	96
b-BHC	µg/L	2	Org-022/025	<2	1	<2	<2	0	96	96
g-BHC	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
d-BHC	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Heptachlor	µg/L	2	Org-022/025	<2	1	<2	<2	0	86	84
Aldrin	µg/L	2	Org-022/025	<2	1	<2	<2	0	96	84
Heptachlor Epoxide	µg/L	2	Org-022/025	<2	1	<2	<2	0	92	82
g-Chlordane	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
a-Chlordane	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Endosulfan I	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
p,p'-DDE	µg/L	2	Org-022/025	<2	1	<2	<2	0	104	96
Dieldrin	µg/L	2	Org-022/025	<2	1	<2	<2	0	114	102
Endrin	µg/L	2	Org-022/025	<2	1	<2	<2	0	114	106
p,p'-DDD	µg/L	2	Org-022/025	<2	1	<2	<2	0	102	92
Endosulfan II	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Endrin Aldehyde	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
p,p'-DDT	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	2	Org-022/025	<2	1	<2	<2	0	110	104
Endrin Ketone	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Methoxychlor	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Dichlorvos	µg/L	2	Org-022/025	<2	1	<2	<2	0	108	117
Mevinphos	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Phorate	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Dimethoate	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Diazinon (dimpylate)	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Disulfoton	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Chloropyriphos-methyl	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Parathion-methyl	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]

Client Reference: 62110, St Peters

QUALITY CONTROL: SVOC's in water						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	282961-1
Ronnel (fenchlorphos)	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Fenitrothion	µg/L	2	Org-022/025	<2	1	<2	<2	0	70	70
Malathion (Maldison)	µg/L	2	Org-022/025	<2	1	<2	<2	0	104	96
Chloropyriphos	µg/L	2	Org-022/025	<2	1	<2	<2	0	108	101
Fenthion	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Parathion (parathion-ethyl)	µg/L	2	Org-022/025	<2	1	<2	<2	0	88	84
Bromoph Ethyl	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Methidathion	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Fenamiphos (Phenamiphos)	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Ethion	µg/L	2	Org-022/025	<2	1	<2	<2	0	78	72
Phosalone	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Azinphos methyl (Guthion)	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Coumaphos (Co-Ral)	µg/L	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	47	1	40	37	8	56	44
Surrogate Phenol-d ₆	%		Org-022/025	32	1	27	25	8	46	32
Surrogate Nitrobenzene-d ₅	%		Org-022/025	83	1	74	69	7	83	70
Surrogate 2-fluorobiphenyl	%		Org-022/025	78	1	74	71	4	85	74
Surrogate 2,4,6-Tribromophenol	%		Org-022/025	74	1	71	61	15	71	62
Surrogate p-Terphenyl-d ₁₄	%		Org-022/025	97	1	88	83	6	90	82

Client Reference: 62110, St Peters

QUALITY CONTROL: PFAS in Waters Short					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	282961-1
Date prepared	-			17/11/2021	[NT]	[NT]	[NT]	[NT]	17/11/2021	17/11/2021
Date analysed	-			17/11/2021	[NT]	[NT]	[NT]	[NT]	17/11/2021	17/11/2021
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	97	99
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	103	99
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	109	102
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	103	105
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	95	104
Surrogate ¹³ C ₈ PFOS	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	100	101
Surrogate ¹³ C ₂ PFOA	%		Org-029	114	[NT]	[NT]	[NT]	[NT]	109	117
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	105	102
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	97	86
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	98	90
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	122	[NT]	[NT]	[NT]	[NT]	112	80
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	92	80

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

Dissolved Metals: no filtered, preserved sample was received, therefore the unpreserved sample was filtered through 0.45µm filter at the lab.

Note: there is a possibility some elements may be underestimated.

CHAIN OF CUSTODY

22656



PROJECT NO.: 62110 LABORATORY BATCH NO.:
 PROJECT NAME: ST Peters SAMPLERS: m n oujaim
 DATE NEEDED BY: STD QC LEVEL: NEPM (2013)
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)Chielby.....@jbsg.com.au; (3)m n oujaim.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:																TYPE OF ASBESTOS ANALYSIS		NOTES:	
Filter Heavy Metals prior to Scan analysis																IDENTIFICATION	NEPM/WA		
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	VOCs	SVOCs	PFAS/PFOs										
<u>1 GAOL</u>	<u>water</u>	<u>15/11/21</u>		<u>Vials, Amber, PFAS, HM</u>		X	X	X	X										<u>Filter Heavy metals prior to analysis</u>

ENVIROLAB
 Chatswood NSW 1587
 Ph: (92) 8970 1200
 JOB NO: 282961
 Date Received: 16-11-2021
 Time Received: 1530
 Received By: JHAN
 Temp: Cool/Ambient
 Cooling: Ice/Repack

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <u>M. N...</u>	DATE: <u>16/11/21</u>	CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME: <u>JHAN</u>	DATE: <u>16-11-21 1530</u>	COOLER SEAL - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Broken <input type="checkbox"/>	
OF: JBS&G		CONSIGNMENT NOTE NO.	TRANSPORT CO.	OF: <u>EVS SYDNEY</u>		COOLER TEMP <u>5</u> deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME:	DATE:	COOLER SEAL - Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/>	
OF:		CONSIGNMENT NOTE NO.	TRANSPORT CO.	OF:		COOLER TEMP <input type="checkbox"/> 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

Appendix F – QA/QC Results

Soil RPDs

Project Number: 62110

Project Name: St Peters Due Diligence

Field Duplicates (soil)

Filter: ALL



SDG	841777	841777		841777	ENVIROLAB 2021-11-15	
Field ID	JBS.MW2-0.2-0.3	QSA03	RPD	JBS.MW2-0.2-0.3	QSC02	RPD
Sampled Date/Time	12/11/2021	12/11/2021		12/11/2021	12/11/2021	

Chem_Group	ChemName	Units	EQL						
Metals & Metalloids	Arsenic	mg/kg	2 : 4 (Interlab)	9.9	11	11	9.9	12	19
	Cadmium	mg/kg	0.4	1.3	1.5	14	1.3	1	26
	Chromium (III+VI)	mg/kg	5 : 1 (Interlab)	14	31	76	14	31	76
	Copper	mg/kg	5 : 1 (Interlab)	94	92	2	94	100	6
	Lead	mg/kg	5 : 1 (Interlab)	85	110	26	85	91	7
	Mercury	mg/kg	0.1	<0.1	0.1	66	<0.1	0.2	120
	Nickel	mg/kg	5 : 1 (Interlab)	13	27	70	13	27	70
	Zinc	mg/kg	5 : 1 (Interlab)	130	160	21	130	130	0
etalloids									
TPHs (NEPC 1999)	C6-C9 Fraction	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	C10-C14 Fraction	mg/kg	20 : 50 (Interlab)	27	<200	0	27	<50	0
	C15-C28 Fraction	mg/kg	50 : 100 (Interlab)	330	<500	0	330	310	6
	C29-C36 Fraction	mg/kg	50 : 100 (Interlab)	490	<500	0	490	530	8
	C10-C36 Fraction (Sum of Total)	mg/kg	50	847	<500	109	847	840	1
1999)									
TRHs (NEPC 2013)	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<500	0	<50	<50	0
	C16-C34	mg/kg	100	700	<1000	0	700	730	4
	C34-C40	mg/kg	100	400	<1000	0	400	390	3
	C10-C40 (Sum of total)	mg/kg	100 : 50 (Interlab)	1100	<1000	10	1100	1100	0
	F1 (C6-C10 minus BTEX)	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<25	0
	F2 (C10-C16 less Naphthalene)	mg/kg	50	<50	<500	0	<50	<50	0
2013)									
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Ethylbenzene	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<1	0
	Xylene (m & p)	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<2	0
	Xylene Total	mg/kg	0.3 : 3 (Interlab)	<0.3	<0.3	0	<0.3	<3	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
PAH	Acenaphthene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	0.6	18	<0.5	0.2	0
	Benz(a)anthracene	mg/kg	0.5 : 0.1 (Interlab)	0.7	1.3	60	0.7	0.8	13
	Benzo(a)pyrene	mg/kg	0.5 : 0.05 (Interlab)	0.8	1.7	72	0.8	1	22
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.6	2.7	51	1.6	1.4	13
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	1.3	2.5	63	1.3	1.4	7
	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	1	2.2	75	1	1.4	33
	Benzo(b+j)fluoranthene	mg/kg	0.5	0.6	0.8	29	0.6		
	Benzo(g,h,i)perylene	mg/kg	0.5 : 0.1 (Interlab)	0.6	1.2	67	0.6	0.8	29
	Benzo(k)fluoranthene	mg/kg	0.5	0.9	1.6	56	0.9		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	0.8	1.7	72	0.8	0.8	0
	Dibenz(a,h)anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	0.1	0
	Fluoranthene	mg/kg	0.5 : 0.1 (Interlab)	1.4	2.2	44	1.4	1.2	15
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	1.1	75	<0.5	0.5	0
	Phenanthrene	mg/kg	0.5 : 0.1 (Interlab)	0.8	1.6	67	0.8	0.6	29
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	1.5	2.5	50	1.5	1.3	14
PAHs (Sum of total)	mg/kg	0.5 : 0.05 (Interlab)	8.1	16.3	67	8.1	8.8	8	
Organochlorine Pesticides	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	0.3	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	g-BHC (Lindane)	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	1.5	1.8	18	1.5	3.2	72
	Aldrin + Dieldrin	mg/kg	0.05	1.5	1.8	18	1.5		
	Chlordane	mg/kg	0.1	<1	<1	0	<1		
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	0.3	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	1	120
	DDT+DDE+DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	1.6	146
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Endosulfan II	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Endosulfan sulphate	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0

Soil RPDs

Project Number: 62110
Project Name: St Peters Due Diligence



Field Duplicates (soil)
Filter: ALL

SDG	841777	841777		841777	ENVIROLAB 2021-11-15	
Field ID	JBS.MW2-0.2-0.3	QSA03	RPD	JBS.MW2-0.2-0.3	QSC02	RPD
Sampled Date/Time	12/11/2021	12/11/2021		12/11/2021	12/11/2021	

	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Endrin aldehyde	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Endrin ketone	mg/kg	0.05	<0.5	<0.5	0	<0.5		
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Heptachlor Epoxide	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Methoxychlor	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
	Toxaphene	mg/kg	0.5	<10	<10	0	<10		
rine Pesticides									
Polychlorinated Biphenyls									
	Arochlor 1016	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1221	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1232	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1242	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1248	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1254	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	Arochlor 1260	mg/kg	0.1	<1	<1	0	<1	<0.1	0
	PCBs (Sum of total)	mg/kg	0.1	<1	<1	0	<1	<0.1	0
ited Biphenyls									
PFAS									
	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	0.0001	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 : 0.0005 (Interlab)	<0.005	<0.005	0	<0.005	<0.0005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.001	0
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.005	<0.005	<0.005	0	<0.005	<0.005	0
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.01 : 0.0002 (Interlab)	<0.01	<0.01	0	<0.01	<0.0002	0
	Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005		
	Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluoroheptanesulfonic acid (PFHpS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	0.0011	0
	Perfluorononanesulfonic acid (PFNS)	mg/kg	0.005	<0.005	<0.005	0	<0.005		
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	0.0003	0
	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	<0.0001	0
	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.01 : 0.0001 (Interlab)	<0.01	<0.01	0	<0.01	<0.0001	0
	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0
	1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.005 : 0.0002 (Interlab)	<0.005	<0.005	0	<0.005	<0.0002	0
	Sum of PFHxS and PFOS	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	0.0011	0
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005		
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005 : 0.0001 (Interlab)	<0.005	<0.005	0	<0.005	0.0012	0
	Sum of PFAS (WA DER List)	mg/kg	0.01	<0.01	<0.01	0	<0.01		
	Sum of PFAS	mg/kg	0.05 : 0.0001 (Interlab)	<0.05	<0.05	0	<0.05	0.0015	0
Chlorinated Benzenes									
	Hexachlorobenzene	mg/kg	0.05 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.1	0
Benzenes									
EPA VIC - IWRG621									
	Organochlorine Pesticides EPAVic	mg/kg	0.1	1.5	1.8	18	1.5		
	Other Organochlorine Pesticides EPAVic	mg/kg	0.1	<1	<1	0	<1		
/RG621									
	Other	Moisture Content (dried @ 103°C)	%	1	6.2	4.7	28	6.2	

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

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

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

INSERT QA/QC TABLE NAME
 Project Number: 62110
 Project Name: St Peters Due Diligence



Field Duplicates (gas)
 Filter: ALL

Field ID	842602 SV8	842602 QVA01	RPD	842602 SV1	842602 QVA02	RPD	842602 SV8	ENVIROLAB 2021-11-18 QVC01	RPD	842602 SV1	ENVIROLAB 2021-11-18 QVC02	RPD
Sampled Date/Time	10/11/2021	10/11/2021		10/11/2021	10/11/2021		10/11/2021	10/11/2021		10/11/2021	10/11/2021	
Chem_Group	ChemName	Units	EQL									
BTEXN	Benzene	mg/m3	0.08 : 0.33 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.33	0
	Toluene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	Ethylbenzene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	Xylene Total	mg/m3	0.25	<0.25	<0.25	0	<0.25	<0.25	0	<0.25		
	Naphthalene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,1,1-trichloroethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,1,2,2-tetrachloroethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,1,2-trichloroethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,1-dichloroethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,2,3-trichloropropane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,2-dibromo-3-chloropropane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,2-dichloroethane	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	1,2-dichloropropane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,3-dichloropropane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	2,2-dichloropropane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Bromochloromethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Carbon tetrachloride	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	Trichlorofluoromethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
Chlorinated Alkenes	1,1-dichloroethene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,1-dichloropropene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	2-chlorotoluene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	4-chlorotoluene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	cis-1,2-dichloroethene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	cis-1,3-dichloropropene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Tetrachloroethene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	trans-1,3-dichloropropene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Trichloroethene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
	Vinyl Chloride	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
MAH	1,2,4-trimethylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,3,5-trimethylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	n-butylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	n-propylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	p-isopropyltoluene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	sec-butylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Styrene	mg/m3	0.833335 : 0.83 (Interlab)	<0.83	<0.83	0	<0.83	<0.83	0	<0.83	<0.83	0
	tert-butylbenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Isopropylbenzene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
Miscellaneous Hydrocarbons	1,2-dibromoethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Dibromomethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
Chlorinated Benzenes	1,2,3-trichlorobenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,2,4-trichlorobenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,2-Dichlorobenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,3-dichlorobenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	1,4-dichlorobenzene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Chlorobenzene	mg/m3	0.08 : 0.83 (Interlab)	<0.08	<0.08	0	<0.08	<0.08	0	<0.08	<0.83	0
Trihalomethanes	Dibromochloromethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Chloroform	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Tribromomethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
	Bromodichloromethane	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		
Organic Alcohols	2-Propanol	mg/m3	1.67	<1.67	<1.67	0	<1.67	<1.67	0	<1.67		
Chlorinated Hydrocarbons	Hexachlorobutadiene	mg/m3	0.08	<0.08	<0.08	0	<0.08	<0.08	0	<0.08		

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

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

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

SDG Field ID	842906 MW02	842906 QC01	RPD	844402 MW02	844402 QC01	RPD	842906 MW02	ENVIROLAB 2021-11-16T00:00:00 QA01	RPD
Sampled Date/Time	15/11/2021	15/11/2021		15/11/2021	15/11/2021		15/11/2021	15/11/2021	

Chem_Group	ChemName	Units	EQL									
Metals & Metalloids	Arsenic (Filtered)	mg/l	0.001	0.02	0.021	5				0.02	0.001	181
	Cadmium (Filtered)	mg/l	0.0002 : 0.0001 (Interlab)	0.0009	0.0008	12				0.0009	<0.0001	179
	Chromium (III+VI) (Filtered)	mg/l	0.001	0.004	0.004	0				0.004	<0.001	156
	Copper (Filtered)	mg/l	0.001	0.001	<0.001	0				0.001	<0.001	0
	Lead (Filtered)	mg/l	0.001	0.019	0.018	5				0.019	<0.001	190
	Mercury (Filtered)	mg/l	0.0001 : 5e-005 (Interlab)	<0.0001	<0.0001	0				<0.0001	<0.00005	0
	Nickel (Filtered)	mg/l	0.001	0.009	0.008	12				0.009	<0.001	179
	Zinc (Filtered)	mg/l	0.005 : 0.001 (Interlab)	0.19	0.17	11				0.19	0.002	196
TPHs (NEPC 1999)	C6-C9 Fraction	mg/l	0.02				0.05	0.04	22			
	C10-C14 Fraction	mg/l	0.05				<0.05	<0.05	0			
	C15-C28 Fraction	mg/l	0.1				<0.1	<0.1	0			
	C29-C36 Fraction	mg/l	0.1				<0.1	<0.1	0			
	C10-C36 Fraction (Sum of Total)	mg/l	0.1				<0.1	<0.1	0			
TRHs (NEPC 2013)	C6-C10	mg/l	0.02				0.05	0.04	22			
	C10-C16	mg/l	0.05				<0.05	<0.05	0			
	C16-C34	mg/l	0.1				<0.1	<0.1	0			
	C34-C40	mg/l	0.1				<0.1	<0.1	0			
	C10-C40 (Sum of total)	mg/l	0.1				<0.1	<0.1	0			
	F1 (C6-C10 minus BTEX)	mg/l	0.02				0.03	0.02	40			
	F2 (C10-C16 less Naphthalene)	mg/l	0.05				<0.05	<0.05	0			
BTEXN	Benzene	mg/l	0.001	0.018	0.017	6				0.018	0.019	5
	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		
	Naphthalene	mg/l	0.01				<0.01	<0.01	0			
	Naphthalene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
PAH	2-Methylnaphthalene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	3-Methylcholanthrene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	7,12-Dimethylbenz(a)anthracene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Acenaphthene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Acenaphthylene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Anthracene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Benz(a)anthracene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Benzo(a)pyrene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Benzo(b+j)fluoranthene	mg/l	0.001	<0.001	<0.001	0				<0.001	<0.002	0
	Benzo(g,h,i)perylene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Benzo(k)fluoranthene	mg/l	0.001	<0.001	<0.001	0				<0.001	<0.002	0
	Chrysene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Dibenz(a,h)anthracene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Fluoranthene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Fluorene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0
Phenanthrene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0	
Pyrene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0				<0.001	<0.002	0	
Organochlorine Pesticides	Pentachlorophenol	mg/l	0.01	<0.01	<0.01	0				<0.01	<0.01	0
	4,4-DDE	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	a-BHC	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	b-BHC	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	d-BHC	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	g-BHC (Lindane)	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Aldrin	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Dieldrin	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	DDT	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	DDD	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endosulfan I	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endosulfan II	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endosulfan sulphate	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endrin	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endrin aldehyde	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Endrin ketone	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0

Field Duplicates (water)
 Filter: ALL

SDG	842906	842906		844402	844402		842906	ENVIROLAB 2021-11-16T00:00:00		
Field ID	MW02	QC01	RPD	MW02	QC01	RPD	MW02	QA01		RPD
Sampled Date/Time	15/11/2021	15/11/2021		15/11/2021	15/11/2021		15/11/2021	15/11/2021		

	Heptachlor	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Heptachlor Epoxide	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Methoxychlor	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	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-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	<0.001	0
	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		
	Hexachloroethane	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	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
Semivolatle Organic Compounds	1-Chloronaphthalene	mg/l	0.005	<0.005	<0.005	0				<0.005		
	2-Chloronaphthalene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Bis(2-chloroethoxy) methane	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Dibenz(a,j)acridine	mg/l	0.005	<0.005	<0.005	0				<0.005		
	Acetophenone	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Bis(2-chloroisopropyl) ether	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	4-Bromophenyl phenyl ether	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	4-Chlorophenyl phenyl ether	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	2,6-dinitrotoluene	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	2-Picoline	mg/l	0.005	<0.005	<0.005	0				<0.005		
	4-Aminobiphenyl	mg/l	0.005	<0.005	<0.005	0				<0.005		
	N-Nitrosopiperidine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	N-nitrosodi-n-butylamine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	N-nitrosodi-n-propylamine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	1-Naphthylamine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	2-Naphthylamine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	3,3-Dichlorobenzidine	mg/l	0.005	<0.005	<0.005	0				<0.005		
	4-(dimethylamino) azobenzene	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Diphenylamine	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Butyl benzyl phthalate	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0				<0.005	<0.01	0
	Dibenzofuran	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
Solvents	Acetone	mg/l	0.005	<0.005	<0.005	0				<0.005		
	Benzyl chloride	mg/l	0.005	<0.005	<0.005	0				<0.005		
Phenols	2,3,4,6-tetrachlorophenol	mg/l	0.01 : 0.002 (Interlab)	<0.01	<0.01	0				<0.01	<0.002	0
	2,4,5-trichlorophenol	mg/l	0.01 : 0.002 (Interlab)	<0.01	<0.01	0				<0.01	<0.002	0
	2,4,6-trichlorophenol	mg/l	0.01 : 0.002 (Interlab)	<0.01	<0.01	0				<0.01	<0.002	0
	2,4-dichlorophenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0				<0.003	<0.002	0
	2,4-dimethylphenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0				<0.003	<0.002	0
	2,4-dinitrophenol	mg/l	0.03 : 0.02 (Interlab)	<0.03	<0.03	0				<0.03	<0.02	0
	2,6-dichlorophenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0				<0.003	<0.002	0
	2-chlorophenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0				<0.003	<0.002	0
	2-Methylphenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0				<0.003	<0.002	0
	2-nitrophenol	mg/l	0.01 : 0.002 (Interlab)	<0.01	<0.01	0				<0.01	<0.002	0

Groundwater RPDs
Project Number: 62110
Project Name: St Peters Due Diligence
Field Duplicates (water)
Filter: ALL



SDG	842906	842906		844402	844402		842906	ENVIROLAB 2021-11-16T00:00:00	
Field ID	MW02	QC01	RPD	MW02	QC01	RPD	MW02	QA01	RPD
Sampled Date/Time	15/11/2021	15/11/2021		15/11/2021	15/11/2021		15/11/2021	15/11/2021	

	3&4-Methylphenol (m&p-cresol)	mg/l	0.006 : 0.004 (Interlab)	<0.006	<0.006	0			<0.006	<0.004	0
	4,6-Dinitro-2-methylphenol	mg/l	0.03 : 0.02 (Interlab)	<0.03	<0.03	0			<0.03	<0.02	0
	4-Chloro-3-Methylphenol	mg/l	0.01	<0.01	<0.01	0			<0.01	<0.01	0
	4-nitrophenol	mg/l	0.03 : 0.02 (Interlab)	<0.03	<0.03	0			<0.03	<0.02	0
	Phenol	mg/l	0.003 : 0.002 (Interlab)	<0.003	<0.003	0			<0.003	<0.002	0
PFAS	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	0			<0.1		
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.03	0.03	0			0.03		
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.05	0.05	0			0.05		
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.02	0.01	67			0.02	0.01	67
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.05	<0.05	<0.05	0			<0.05		
	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		
	Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	0.03	0.03	0			0.03	0.03	0
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	0.01	0.01	0			0.01	0.02	67
	Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	0			<0.01		
	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	<0.01	<0.01	0			<0.01		
	Sum of PFHxS and PFOS	µg/L	0.01	0.04	0.04	0			0.04	0.05	22
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01	0.06	0.05	18			0.06		
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	0.03	0.02	40			0.03	0.03	0
	Sum of PFAS (WA DER List)	µg/L	0.05	0.14	0.13	7			0.14		
	Sum of PFAS	µg/L	0.1 : 0.01 (Interlab)	0.14	0.13	7			0.14	0.06	80
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	0.019	0.018	5			0.019		
	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	1,2,3,4-tetrachlorobenzene	mg/l	0.005	<0.005	<0.005	0			<0.005		
	1,2,3,5-tetrachlorobenzene	mg/l	0.005	<0.005	<0.005	0			<0.005		
	1,2,3-trichlorobenzene	mg/l	0.005 : 0.001 (Interlab)	<0.005	<0.005	0			<0.005	<0.001	0
	1,2,4,5-tetrachlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0			<0.005	<0.002	0
	1,2,4-trichlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0			<0.005	<0.001	0
	1,2-Dichlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0			<0.005	<0.001	0
	1,2-Dichlorobenzene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0			<0.001	<0.001	0
	1,3,5-trichlorobenzene	mg/l	0.005	<0.005	<0.005	0			<0.005		
	1,3-dichlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0			<0.005	<0.001	0
	1,3-dichlorobenzene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0			<0.001	<0.001	0
	1,4-dichlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0			<0.005	<0.001	0
	1,4-dichlorobenzene	mg/l	0.001 : 0.002 (Interlab)	<0.001	<0.001	0			<0.001	<0.001	0

Groundwater RPDs
 Project Number: 62110
 Project Name: St Peters Due Diligence
 Field Duplicates (water)
 Filter: ALL



SDG	842906	842906		844402	844402		842906	ENVIROLAB 2021-11-16T00:00:00		
Field ID	MW02	QC01	RPD	MW02	QC01	RPD	MW02	QA01		RPD
Sampled Date/Time	15/11/2021	15/11/2021		15/11/2021	15/11/2021		15/11/2021	15/11/2021		

	Chlorobenzene	mg/l	0.001	<0.001	<0.001	0				<0.001	<0.001	0
	Hexachlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	0
	Pentachlorobenzene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.002	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
Herbicides & Fungicides	Pronamide	mg/l	0.005	<0.005	<0.005	0				<0.005		
	Trifluralin	mg/l	0.005	<0.005	<0.005	0				<0.005		
Phthalates	Bis(2-ethylhexyl) phthalate	mg/l	0.005 : 0.05 (Interlab)	<0.005	<0.005	0				<0.005	<0.05	0
	Diethylphthalate	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0				<0.005	<0.01	0
	Dimethyl phthalate	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0				<0.005	<0.01	0
	Di-n-butyl phthalate	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0				<0.005	<0.01	0
	Di-n-octyl phthalate	mg/l	0.005 : 0.01 (Interlab)	<0.005	<0.005	0				<0.005	<0.01	0
Nitrobenzenes	Nitrobenzene	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Pentachloronitrobenzene	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
Nitrotoluenes	2,4-dinitrotoluene	mg/l	0.005	<0.005	<0.005	0				<0.005		
Anilines	2-Nitroaniline	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Aniline	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	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		
Chlorinated Hydrocarbons	Hexachlorocyclopentadiene	mg/l	0.005	<0.005	<0.005	0				<0.005	<0.005	0
	Hexachlorobutadiene	mg/l	0.005 : 0.002 (Interlab)	<0.005	<0.005	0				<0.005	<0.001	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: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL)

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

Appendix G – Field Records and Calibration Certificates

Vapour Purging Form



Project Number: 62110	Date: 9/11/21	Sampler/s: MAJ
Site Address: 28-30 Burness Rd, St Kilda	Sample Method: Carbon tube - low flow	Weather: Overcast

Field Measurements

Sample ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	H ₂ S Leak Detection PID
QVAIC 01 - SV8	7.20	8.0	4.2	0	0	0	0
	+30s	7.0	5.9	0	0	0	0
	+30s	6.7	6.4	0	0	0	0
	+30s	6.6	6.4	0	0	0	0
SV7	7.28	11.7	3.2	0	0	0	0
	+30s	11.8	3.1	0	0	0	0
	+30s	12.1	2.2	0	0	0	0
	+30s	12.0	2.1	0	0	0	0
SV9	7.36	10.7	0.2	0	0	0	0
	+30s	10.5	0.4	0	0	0	0
	+30s	10.4	0.5	0	0	0	0
	+30s	10.3	0.5	0	0	0	0
SV11	7.43	12.9	0	0	0	0	0
	+30s	13.0	0	0	0	0	0
	+30s	13.1	0	0	0	0	0
	+30s	13.0	0	0	0	0	0
SV6	7.51	10.2	0	0	0	0	0
	+30s	10.3	0	0	0	0	0
	+30s	10.3	0	0	0	0	0
	+30s	10.3	0	0	0	0	0
SV5	7.59	12.6	0.2	0.4	0	0	0
	+30s	12.5	0.3	0	0	0	0
	+30s	12.2	0.3	0	0	0	0
	+30s	12.1	0.3	0	0	0	0
SV4	8.10	9.4	0.1	0.2	0	0	0
	+30s	9.3	0.1	0.1	0	0	0
	+30s	9.2	0.1	0	0	0	0
	+30s	9.3	0.1	0	0	0	0
SV3	8.16	10.1	0.8	0	0	0	0
	+30s	10.2	0.9	0	0	0	0
	+30s	10.1	0.9	0	0	0	0
	+30s	10.1	0.9	0	0	0	0
SV2	8.28	8.4	0.7	1.6	0	0	0
	+30s	8.4	0.6	1.1	0	0	0
	+30s	8.4	0.6	0	0	0	0
	+30s	8.4	0.6	0	0	0	0

Vapour Purging Form



Project Number: 62110	Date: 9/11/21	Sampler/s: MN
Site Address: 28-30 Burnow Rd, St Peters.	Sample Method: Can Tube - low flow	Weather: Overcast

Field Measurements

QVA/C-02

Sample ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	H ₂ S Leak Detection PID
SV1	8.35	11.4	1.0	0.2	0	0	0
	+30s	11.4	0.4	0	0	0	0
	+30s	11.4	0.4	0	0	0	0
	+30s	11.4	0.4	0	0	0	0
SV24	9.30	12.3	0.3	0.4	0	0	0
	+30s	12.3	0.3	0	0	0	0
	+30s	12.3	0.3	0	0	0	0
	+30s	12.3	0.3	0	0	0	0
SV25	9.43	10.0	0.6	0	0	0	0
	+30s	10.0	0.1	0	0	0	0
	+30s	10.1	0.2	0	0	0	0
	+30s	10.1	0.2	0	0	0	0
SV26	10.02	10.0	0.6	0	0	0	0
	+30s	10.0	0.4	0	0	0	0
	+30s	10.0	0.4	0	0	0	0
	+30s	10.0	0.3	0	0	0	0
SV27	10.15	14.3	2.7	0.3	0	0	0
	+30s	14.2	2.7	0	0	0	0
	+30s	14.1	2.7	0	0	0	0
	+30s	14.1	2.7	0	0	0	0
SV28	11.03	11.8	4.2	0.8	0	0	0
	+30s	11.8	4.1	0	0	0	0
	+30s	11.8	4.0	0	0	0	0
	+30s	11.8	3.9	0	0	0	0
SV29	11.15	12.2	3.2	1.1	0	0	0
	+30s	12.2	3.3	0	0	0	0
	+30s	12.2	3.3	0	0	0	0
	+30s	12.2	3.3	0	0	0	0
SV30	11.39	15.8	1.4	1.4	0	0	0
	+30s	15.6	1.4	1.0	0	0	0
	+30s	15.5	1.5	0.8	0	0	0
	+30s	15.4	1.6	0.2	0	0	0
SV31	12.05	12.4	0.8	0.9	0	0	0
	+30s	12.3	0.7	0	0	0	0
	+30s	12.3	0.6	0	0	0	0
	+30s	12.2	0.5	0	0	0	0

Vapour Purging Form



Project Number: 62110	Date: 10/11/20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Sample ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	H ₂ O+H ₂ Leak Detection PID
SV17	7.50 7.50	13.8	2.2	1.1	0	0	0
	+30	13.7	2.3	0.5	0	0	0
	+30	13.7	2.4	0.3	0	0	0
	+30	13.7	2.4	0	0	0	0
SV15	8.05	0.2	6.9	147.2	0.3	6.3	0
	+30s	0.1	7.9	57.1	0	1.5	0
	+30s	0.1	9.0	55.1	0	0	0
	+30s	0.1	8.9	54.9	0	0	0
SV41	8.14	8.1	0	13.1	0	0	0
	+30s	7.9	0	0.9	0	0	0
	+30s	7.9	0	0.6	0	0	0
	+30s	7.9	0	0.5	0	0	0
SV42	8.31	11.2	0	20.3	0	0	0
	+30s	11.6	0	16.2	0	0	0
	+30s	11.6	0	12.1	0	0	0
	+30s	11.6	0	11.9	0	0	0
SV16	8.46	3.1	0	348.1	6.7	>100	0
	+30s	0.6	1.3	368.9	10.3	>100	0
	+30s	0.6	1.2	385.1	13.1	>100	0
	+30s	0.6	1.3	392.1	13.9	>100	0
	+30s	0.6	1.3	396.	14.1	>100	0
SV18	9.01	0.3	0.4	60.4	0.6	14.1	0
	+30s	0.1	0.2	57.1	0.5	11.0	0
	+30s	0.1	0.4	54.3	0.3	10.5	0
	+30s	0.1	0.3	53.9	0.3	10.2	0
	+30s	0.1	0.3	53.1	0.2	10.1	0
SV19	9.20	12.1	2.6	1.1	0	0	0
	+30	12.0	2.7	0.5	0	0	0
	+30	12.0	2.5	0	0	0	0
	+30	12.0	2.5	0	0	0	0
SV13	9.38	10.2	2.2	88.9	0.8	22.0	0
	+30	10.6	0.6	94.5	0.3	11.0	0
	+30	10.7	0.5	95.5	0.3	8.4	0
	+30	10.7	0.5	96.4	0.3	6.3	0
	+30	10.7	0.4	96.7	0.2	4.7	0

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Vapour Purging Form



Project Number:	Date: 10/11/21	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Sample ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	H ₂ S Leak-Detection PID
SV14	9.56	10.6	3.8	2.6	0	0	0
	+30	10.8	3.7	1.0	0	0	0
	+30	10.9	3.7	0	0	0	0
	+30	10.9	3.7	0	0	0	0
SV12	11.11	1.7	0.2	10.8	0	0	0
	+30s	0.2	0	11.0	0	0	0
	+30s	0.1	0	11.0	0	0	0
	+30s	0.1	0	11.2	0	0	0
SV21	11.30	7.0	0	3.1	0	0	0
	+30	4.6	0	1.1	0	0	0
	+30	4.5	0	0.3	0	0	0
	+30	4.5	0	0	0	0	0
SV22	11.46	0.2	0.6	11.7	4.8 7100	>100	0
	+30	0.1	2.0	12.3	4.8	>100	0
	+30	0	3.3	12.4	4.8	>100	0
	+30	0	3.3	12.7	4.7	>100	0
SV23	12.01	12.7	0.6	1.2	0	0	0
	+30s	12.8	0.6	0.6	0	0	0
	+30s	12.8	0.6	0.3	0	0	0
	+30s	12.8	0.6	0.2	0	0	0
SV10	12.10	10.2	0.1	0.6	0	0	0
	+30s	10.3	0.1	0	0	0	0
	+30s	10.4	0.1	0	0	0	0
	+30s	10.4	0.1	0	0	0	0
SV20	12.21	12.7	1.2	0.9	0	0	0
	+30s	12.8	1.3	1.0	0	0	0
	+30s	12.8	1.2	1.0	0	0	0
	+30s	12.8	1.3	1.0	0	0	0
SV34	12. Flooded						
SV35	12.38	10.1	0.2	0.4	0	0	0
	+30	10.0	0.3	0	0	0	0
	+30	9.8	0.2	0	0	0	0
	+30	9.7	0.2	0	0	0	0
SV36	12.50	10.9	0.6	1.1	0	0	0
	+30	11.0	0.6	1.2	0	0	0
	+30	11.0	0.6	1.4	0	0	0
	+30	11.0	0.6	1.3	0	0	0

SVAG

Field Equipment Calibration and Decontamination

PROJECT NAME: <i>St Peters</i>	PROJECT NO: 6210 <i>62110</i>
FIELDWORK DATES: <i>15 & 16 / 11 / 21</i>	SAMPLERS: <i>M. Kuznetsov</i>
TYPE OF INVESTIGATION: <i>CME</i>	PROJECT MANAGER: <i>Chirley</i>

CALIBRATION SUMMARY

EQUIPMENT: *wam & IP attached*

CALIBRATION STANDARD:

DATE	TIME	READING (ppm)	COMMENTS

DECONTAMINATION SUMMARY

EQUIPMENT: *IP, weights, collars*

1	Was the equipment decontaminated appropriately prior to sampling at each location?	<input checked="" type="radio"/>	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	<input checked="" type="radio"/>	N	NA
3	Was the equipment contaminated with grease, tar or similar material? If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	<input checked="" type="radio"/>	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	<input checked="" type="radio"/>	N	NA
6	Was the equipment then rinsed with deionised water?	<input checked="" type="radio"/>	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	<input checked="" type="radio"/>	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS
New tubing & pair of nitrile gloves used for each sample

Oil / Water Interface Meter


airmet

 Air-Met Scientific Pty Ltd
 1300 137 067

 Instrument **Interface Meter (30M)**
 Serial No. **312505**

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	✓	
	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by:

kate rawlings

Calibration date:

11/11/2021

Next calibration due:

10/01/2022



Air-Met Scientific Pty Ltd
1300 137 067

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
Serial No. **18G103121**

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 10.00		pH 10.00		370064	pH 9.88
2. pH 7.00		pH 7.00		372012	pH 7.03
3. pH 4.00		pH 4.00		367234	pH 4.05
4. mV		231.8mV		365451/370891	231.8mV
5. EC		2.76mS		369734	2.76mS
6. D.O		0.00ppm		371864	0.02ppm
7. Temp		21.2°C		MultiTherm	20.8°C

Calibrated by: _____ **Eloise Carroll**

Calibration date: **5/11/2021**

Next calibration due: **5/12/2021**

Groundwater Sampling Form

PROJECT NAME: <i>ST Peters</i>	PROJECT NO: <i>62110</i>
SAMPLING DATES: <i>16/1/21</i>	SAMPLERS: <i>M. Morgan</i>
TYPE OF INVESTIGATION:	PROJECT MANAGER:
WELL ID: <i>MWB1</i>	WEATHER: <i>Cloud</i>

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: Flush Mount / Monument	Depth to SWL (mBTOC): <i>2.086</i>
Well Cap Type: Locking Cap / PVC / Other	NAPL Thickness (m):
Well Condition: Good / Compromised	Depth to EoH (mBTOC): <i>5.34</i>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume 4 Casings Vol. (L)	
Low Flow Pump Submersion depth (mBTOC)	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments
		<input checked="" type="checkbox"/> mgL/ppm					Inc SWL for low flow (mBTOC)
		<i>0.07</i>	<i>20.4</i>	<i>6.67</i>	<i>1088</i>	<i>-64.4</i>	
		<i>0.07</i>	<i>20.3</i>	<i>6.66</i>	<i>1071</i>	<i>-83.2</i>	
		<i>0.07</i>	<i>20.3</i>	<i>6.60</i>	<i>1066</i>	<i>-81.9</i>	
		<i>0.07</i>	<i>20.3</i>	<i>6.57</i>	<i>1005</i>	<i>-73.3</i>	
		<i>0.08</i>	<i>20.3</i>	<i>6.57</i>	<i>975</i>	<i>-64.7</i>	
		<i>0.08</i>	<i>20.3</i>	<i>6.56</i>	<i>971</i>	<i>-62.9</i>	
		<i>0.08</i>	<i>20.3</i>	<i>6.56</i>	<i>964</i>	<i>-61.3</i>	
Acceptable Variations*		<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.05 pH</i>	<i>+/-3%</i>	<i>+/-10mV</i>	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:	<i>turbid (moderate)</i>	Sheen:	YES / <input checked="" type="radio"/> NO
Colour:	<i>PFA/ brown/orange</i>	Odour:	YES / <input checked="" type="radio"/> NO
<i>Peri: grey</i>			

Groundwater Sampling Form

PROJECT NAME: <u>62110</u>	PROJECT NO: <u>ST Peters</u>
SAMPLING DATES: <u>15/11/21</u>	SAMPLERS:
TYPE OF INVESTIGATION:	PROJECT MANAGER:
WELL ID: <u>MV07</u>	WEATHER:

Casing Diameter (mm):	Depth to NAPL (mBTC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTC): <u>1.668</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good / Compromised</u>	Depth to EoH (mBTC): <u>3.82</u>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume <u>4 Casings Vol. (L)</u>	
Low Flow <u>Pump Submersion depth (mBTC)</u>	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input checked="" type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTC)
		<u>0.18</u>	<u>23.1</u>	<u>6.20</u>	<u>772</u>	<u>-0.6</u>	
		<u>0.13</u>	<u>23.0</u>	<u>6.11</u>	<u>772</u>	<u>-16.1</u>	
		<u>0.13</u>	<u>23.0</u>	<u>6.29</u>	<u>773</u>	<u>-22.0</u>	
		<u>0.13</u>	<u>23.0</u>	<u>6.20</u>	<u>773</u>	<u>-25.1</u>	
<u>QC/QA01</u>							
Acceptable Variations*		<u>+/-10%</u>	<u>+/- 0.2 °C</u>	<u>+/-0.05 pH</u>	<u>+/-3%</u>	<u>+/-10mV</u>	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:		Sheen:	YES / <input checked="" type="checkbox"/> NO
Colour:	<u>turbid grey</u>	Odour:	<input checked="" type="checkbox"/> YES / NO <u>Hc</u>

Groundwater Sampling Form

PROJECT NAME: <i>St Peters</i>	PROJECT NO: <i>62110</i>
SAMPLING DATES: <i>15/11/21</i>	SAMPLERS: <i>M. Molgrem</i>
TYPE OF INVESTIGATION: <i>GME</i>	PROJECT MANAGER: <i>C. Bielby</i>
WELL ID: <i>MW03</i>	WEATHER: <i>Good</i>

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: <i>Flush Mount / Monument</i>	Depth to SWL (mBTOC): <i>1.617</i>
Well Cap Type: <i>Locking Cap / PVC / Other</i>	NAPL Thickness (m):
Well Condition: <i>Good / Compromised</i>	Depth to EoH (mBTOC): <i>3.924</i>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume <i>4 Casings Vol. (L)</i>	
Low Flow <i>Pump Submersion depth (mBTOC)</i>	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input checked="" type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments
		<i>0.23</i>	<i>22.2</i>	<i>6.50</i>	<i>728</i>	<i>-61.8</i>	<i>Inc SWL for low flow (mBTOC)</i>
		<i>0.28</i>	<i>22.3</i>	<i>6.51</i>	<i>728</i>	<i>-74.5</i>	
		<i>0.28</i>	<i>22.3</i>	<i>6.52</i>	<i>723</i>	<i>-79.2</i>	
		<i>0.28</i>	<i>22.2</i>	<i>6.53</i>	<i>720</i>	<i>-80.7</i>	
		<i>0.27</i>	<i>22.2</i>	<i>6.53</i>	<i>720</i>	<i>-81.7</i>	
Acceptable Variations*		<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.05 pH</i>	<i>+/-3%</i>	<i>+/-10mV</i>	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: <i>turbid</i>	Sheen: YES / NO
Colour: <i>blown</i>	Odour: YES / NO

Groundwater Sampling Form

PROJECT NAME: 62110	PROJECT NO: 62110
SAMPLING DATES: 15/11/21	SAMPLERS: M. Anderson
TYPE OF INVESTIGATION:	PROJECT MANAGER:
WELL ID: MW04	WEATHER:

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: Flush Mount / Monument	Depth to SWL (mBTOC): 2.315
Well Cap Type: Locking Cap / PVC / Other	NAPL Thickness (m):
Well Condition: Good / Compromised	Depth to EoH (mbtoc): 3.90
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume 4 Casings Vol. (L)	
Low Flow Pump Submersion depth (mBTOC)	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input checked="" type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC μ S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
		0.04	22.7	6.52	544	-73.4	
		0.04	22.0	6.34	507	-72.0	
		0.03	21.9	6.32	494.5	-68.1	
		0.04	21.9	6.32	498.4	-69.2	
		0.04	21.9	6.30	498.6	-68.0	
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: Very turbid	Sheen: YES / NO
Colour: brown	Odour: YES / NO HC

Groundwater Sampling Form

PROJECT NAME: Alexandria	PROJECT NO: 62110
SAMPLING DATES: 15/11/21	SAMPLERS: M. Yousif
TYPE OF INVESTIGATION: GME	PROJECT MANAGER: C. Dely
WELL ID: MW05	WEATHER: Good

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: Flush Mount / Monument	Depth to SWL (mBTOC): 1.523
Well Cap Type: Locking Cap / PVC / Other	NAPL Thickness (m):
Well Condition: Good / Compromised	Depth to EoH (mbtoc): 3.96
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume 4 Casings Vol. (L)	
Low Flow Pump Submersion depth (mBTOC)	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN		TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
		<input type="checkbox"/> %	<input checked="" type="checkbox"/> mgL/ppm					
		2.27		21.0	6.57	651	-91.9	
		2.12		21.4	6.54	652	-109.2	
		1.90		21.4	6.51	651	-113.9	
		1.81		21.5	6.50	653	-116.4	
		1.80		21.5	6.50	652	-117.2	
		1.81		21.5	6.50	652	-118.3	
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: Slightly turbid	Sheen: YES / NO
Colour: light yellow - light brown	Odour: YES / NO HC

Groundwater Sampling Form

PROJECT NAME:		PROJECT NO:	62110
SAMPLING DATES:	15/11/21	SAMPLERS:	M. Navjain
TYPE OF INVESTIGATION:	CMB	PROJECT MANAGER:	C. Bielby
WELL ID:	JBS-MW1	WEATHER:	Cloud

Casing Diameter (mm):		Depth to NAPL (mBTOC):	
Well Completion:	Flush Mount / Monument	Depth to SWL (mBTOC):	-
Well Cap Type:	Locking Cap / PVC / Other	NAPL Thickness (m):	
Well Condition:	Good / Compromised	Depth to EoH (mBTOC):	3.76
Calculated Well Volume (L):		Water Column Depth (m):	
Sampling Method:		NAPL Visually Verified?	
Purge Volume	4 Casings Vol. (L)		
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments
		22.8	0.03	6.53	656	-20.6	Inc SWL for low flow (mBTOC)
		24.4	0.02	6.42	652	-27.1	
		23.3	0.02	6.40	625	-31.2	
		22.8	0.02	6.38	602	-31.6	
		22.8	0.02	6.37	600	-31.9	
		22.8	0.03	6.36	598	-32.4	
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:	cloudy	Sheen:	YES / NO
Colour:	grey	Odour:	YES / NO

Groundwater Sampling Form

PROJECT NAME: <i>St Peters</i>	PROJECT NO: <i>62110</i>
SAMPLING DATES: <i>15/1/21</i>	SAMPLERS: <i>M. Williams</i>
TYPE OF INVESTIGATION:	PROJECT MANAGER:
WELL ID: <i>JBS-MW2</i>	WEATHER:

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: <i>Flush Mount / Mon. Port</i>	Depth to SWL (mBTOC): <i>2.388 2.388</i>
Well Cap Type: <i>Locking Cap / PVC / Other</i>	NAPL Thickness (m):
Well Condition: <i>Good / Compromised</i>	Depth to EoH (mbtoc): <i>3.65</i>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume <i>4 Casings Vol. (L)</i>	
Low Flow <i>Pump Submersion depth (mBTOC)</i>	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
		<i>1.21</i>	<i>21.0</i>	<i>6.45</i>	<i>841</i>	<i>-29.2</i>	
		<i>1.29</i>	<i>21.0</i>	<i>6.50</i>	<i>847</i>	<i>-38.0</i>	
		<i>1.29</i>	<i>21.0</i>	<i>6.52</i>	<i>847</i>	<i>-38.4</i>	
		<i>1.30</i>	<i>21.1</i>	<i>6.48</i>	<i>849</i>	<i>-38.9</i>	
Acceptable Variations*		<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.05 pH</i>	<i>+/-3%</i>	<i>+/-10mV</i>	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:	<i>Clear not to turbid</i>	Sheen:	YES / <input checked="" type="radio"/> NO
Colour:		Odour:	YES / <input checked="" type="radio"/> NO

Groundwater Sampling Form

PROJECT NAME: <u>ST Peter's</u>	PROJECT NO: <u>62110</u>
SAMPLING DATES: <u>15/11/11</u>	SAMPLERS: <u>M. Nodjari</u>
TYPE OF INVESTIGATION: <u>GMIE</u>	PROJECT MANAGER:
WELL ID: <u>JBS-MW03</u>	WEATHER:

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTOC): <u>1.94</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good / Compromised</u>	Depth to EoH (mBTOC): <u>3.62</u>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume <u>4 Casings Vol. (L)</u>	
Low Flow <u>Pump Submersion depth (mBTOC)</u>	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments
		<u>0.04</u>	<u>21.0</u>	<u>6.21</u>	<u>694</u>	<u>-13.5</u>	<u>Inc SWL for low flow (mBTOC)</u>
		<u>0.04</u>	<u>21.0</u>	<u>6.24</u>	<u>692</u>	<u>-22.0</u>	
		<u>0.04</u>	<u>21.0</u>	<u>6.23</u>	<u>691</u>	<u>-22.4</u>	
		<u>0.04</u>	<u>21.0</u>	<u>6.24</u>	<u>693</u>	<u>-23.4</u>	
Acceptable Variations*		<u>+/-10%</u>	<u>+/- 0.2 °C</u>	<u>+/-0.05 pH</u>	<u>+/-3%</u>	<u>+/-10mV</u>	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:	<u>Grey</u>	Sheen:	YES / NO
Colour:	<u>turbid</u>	Odour:	YES / NO <u>4C</u>

Groundwater Sampling Form

PROJECT NAME:	PROJECT NO: 62110
SAMPLING DATES: 16/11/21	SAMPLERS:
TYPE OF INVESTIGATION:	PROJECT MANAGER: M. Nojima
WELL ID: JBS-MW4	WEATHER:

Casing Diameter (mm):	Depth to NAPL (mBTC):
Well Completion: Flush Mount / Monument	Depth to SWL (mBTC): 1.646
Well Cap Type: Locking Cap / PVC / Other	NAPL Thickness (m):
Well Condition: Good / Compromised	Depth to EoH (mBTC): 3.60
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume 4 Casings Vol. (L)	
Low Flow Pump Submersion depth (mBTC)	

TIME	VOLUME PURGED L	DSSOLVED OXYGEN <input type="checkbox"/> % <input type="checkbox"/> mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTC)
							No data WQM error
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:	turbid	Sheen:	YES / NO
Colour:	grey	Odour:	YES / NO Hc

Groundwater Sampling Form

PROJECT NAME: <i>St Peter's</i>	PROJECT NO: <i>62110</i>
SAMPLING DATES: <i>16/11/21</i>	SAMPLERS:
TYPE OF INVESTIGATION:	PROJECT MANAGER:
WELL ID: <i>JBS-MW5</i>	WEATHER:

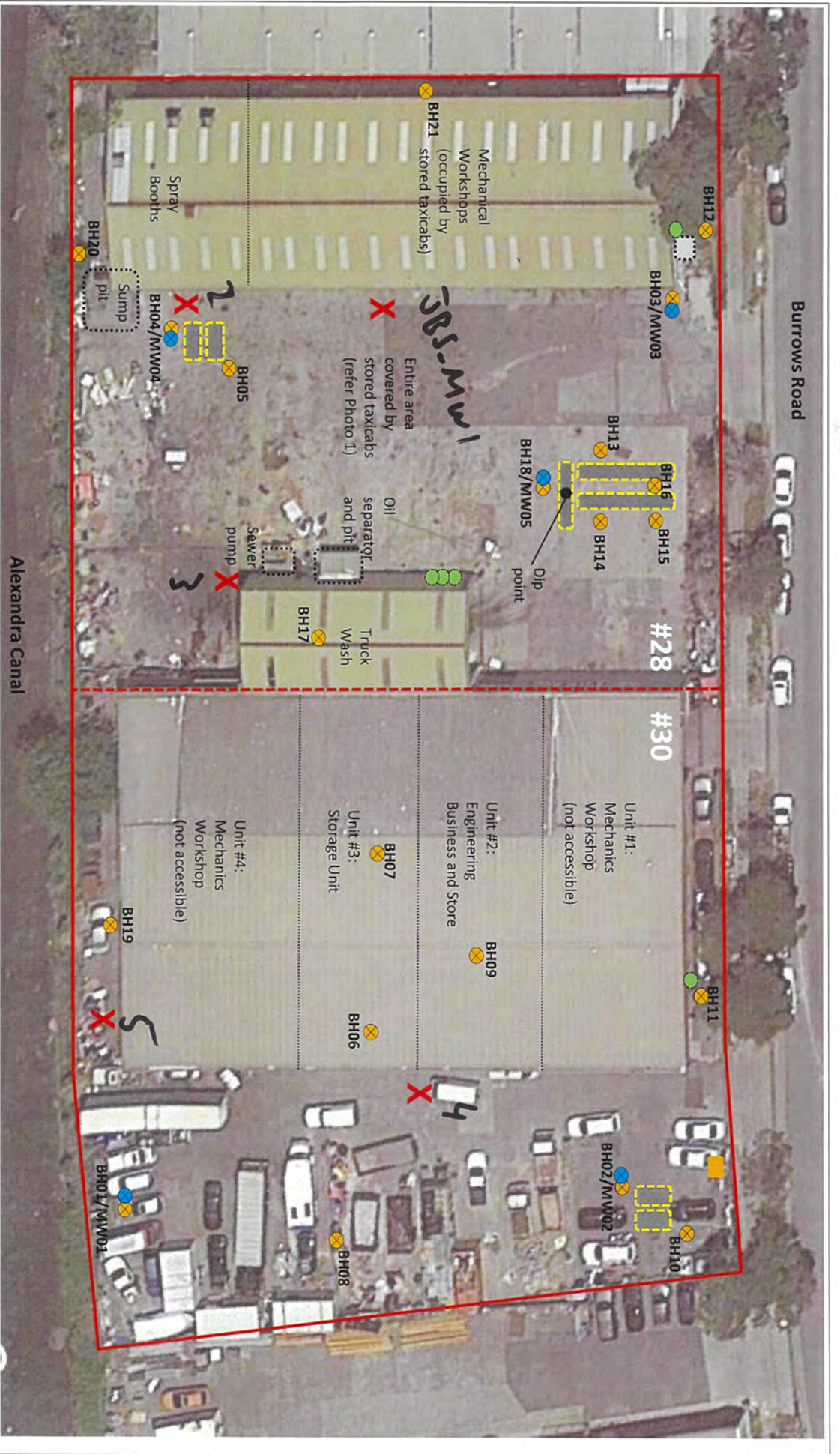
Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: Flush Mount / Monument	Depth to SWL (mBTOC): <i>1.928</i>
Well Cap Type: Locking Cap / PVC / Other	NAPL Thickness (m):
Well Condition: Good / Compromised	Depth to EoH (mbtoc): <i>2.48</i>
Calculated Well Volume (L):	Water Column Depth (m):
Sampling Method:	NAPL Visually Verified?
Purge Volume 4 Casings Vol. (L)	
Low Flow Pump Submersion depth (mBTOC)	

TIME	VOLUME PURGED L	DISSOLVED OXYGEN		TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
		<input type="checkbox"/> %	<input checked="" type="checkbox"/> mgL/ppm					
			<i>0.09</i>	<i>20.2</i>	<i>6.33</i>	<i>511</i>	<i>-17.6</i>	
			<i>0.09</i>	<i>20.2</i>	<i>6.37</i>	<i>501</i>	<i>-34.9</i>	
			<i>0.09</i>	<i>20.2</i>	<i>6.34</i>	<i>499.5</i>	<i>-39.5</i>	
			<i>0.09</i>	<i>20.2</i>	<i>6.33</i>	<i>498.6</i>	<i>-43.9</i>	
			<i>0.09</i>	<i>20.2</i>	<i>6.32</i>	<i>497.8</i>	<i>-44.4</i>	
Acceptable Variations*		<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.05 pH</i>	<i>+/-3%</i>	<i>+/-10mV</i>		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: <i>turbid</i>	Sheen: YES / NO
Colour: <i>grey</i>	Odour: YES / NO



Not to scale
Added features are approximate



Source: Google Earth 2020



Project #:	SES_566	Title:	Due Diligence – Contamination Assessment
Figure 3:	Sampling Locations	Address:	28-30 Burrows Road, St Peters NSW



Calibration Certificate

AirMet Scientific P/L

Level 3, 18-26 Dickson Avenue

Artarmon

NSW 2064, Australia

Tel: 02 8425 8300

Fax: 02 8425 8399

This document certifies that the instrument detailed has been calibrated to the parameters

Certificate Print Date: 8-Oct-2021

Call ID / Order No: 252564

Calibration Date: 08-Oct-2021

Job No / Pack No: S2525640002

Next Calibration Due: 6-Apr-2022

Customer: JBS&G Australia Pty Ltd-ID 202507

Serial No: T-113497

Description: PhoCheck Tiger Li-ion Battery Battery Charger

Calibration Summary

Frequency: 180 Days Temp: 22°C As Found: In Tolerance Result: Pass
Humidity: 45% Certificate: S2525640002

Desc	As Found		As Left (Cal Status)	
	Actual	Result	Actual	Result
ISOBUTYLENE 100ppm	104.7	Pass	100.1	Pass
ISOBUTYLENE 1000ppm	992.1	Pass	1002.4	Pass

Equip ID	Standard Used		Valid Until	Cert
	Description			
SY421	Isobutylene 100 ppm, Air Balance		01-07-2026	400299246
SY356	Zero Grade Air 20.9%VOL O2, N2 Balance		26-09-2025	400293734
SY336	ISO-BUTYLENE 1000PPM, AIR BALANCE		28-07-2023	BU 70910-041220

Please note -This instrument is not Intrinsic Safety device.

Completed By: Jason Cheng

Signed: 

Date: 24.12.20

Attn: Miljan
JBS&G Australia
Level 1, 50 Margaret Street
Sydney
NSW 2000

Ref. O/N TBA

Calibration Certificate # 5146

Manufacture/Model : Gas Data GFM436
S/N : 13071
Gases Monitored : CH4, 0-100%, CO2 0-100%, O2 0-25% & H2S, CO

Zero setting CH4/CO2/O2/H2S/CO : 0.0
Gas used : N2
Cylinder No. : BOC High Purity

Span setting CH4 : 60.0%
Gas used : 60.0% CH4 in CO2
Cylinder No. : Air Liquide 72927 (NATA)
60.0% CH4 in CO2 reads : 59.8%

Span setting CO2 : 40.0%
Gas used : 40.0% CO2 in CH4
Cylinder No. : Air Liquide 72927 (NATA)
40.0% CO2 in CH4 reads : 40.2%

Span setting O2 : 20.9% (Air) Reads 20.9%
Span setting 25ppm H2S reads : 25ppm
Span setting 1100ppm CO reads : 1104ppm

Cells replaced : -
Estimated Date of cell replacement : Oxygen 17/4/22

Comments : Calibration OK
Flow rate : 580ml/min. OK
Atm. Pressure 1001mb : 1000mb

Next Service/calibration Due : 24/12/21

Stephen Hurst
ANRI Instruments & Controls Pty Ltd

Date: 24.12.20

Attn: Miljan
JBS&G Australia
Level 1, 50 Margaret Street
Sydney
NSW 2000

Engineers Report # 3623

GFM436 s/n 13071

Fault reported – LEL does not drop to zero on fresh air.

Service & calibration

Inlet filter Assy– OK
O2 sensor - OK
Test charging circuit. - OK
Check sample pump - OK
Check piping, vacuum & flow.
Leak test.
Flow test.
Calibration via S/W & test gases. - OK

Parts:-

Labour:- Including calibration with test gases. \$440.00

Freight: \$40.00

Total price: \$480.00 + GST

Stephen Hurst
ANRI Instruments & Controls Pty Ltd

Appendix H – Development Plans

DEVELOPMENT SUMMARY

TOTAL SITE AREA = 7,961m²

ZONING: IN1 GENERAL INDUSTRIAL
 FSR ALLOWABLE (1:5:1) = 11,950.5m²
 FSR PROVIDED (0.8:1) = 6,510m²

DEEP SOIL
 LANDSCAPE AREA = 1,281m²
 = 15.7% DEEP SOIL COVER

(REAR RESERVE HATCHED SETBACK ZONE ALONG ALEXANDRIA CANAL FOR FUTURE COUNCIL PARKLAND COMPRISING OF CONTINUOUS PEDESTRIAN & BIKE PATHWAYS)

LANDSCAPE AREA = 1,511m²
 = 18.9% LANDSCAPE AREA COVER
 (STREET FRONTAGE & REAR RESERVE LANDSCAPE)

GFA

LOCATION	AREA
GROUND LEVEL	3253 m ²
LEVEL 1	1629 m ²
LEVEL 2	1627 m ²
Grand total	6510 m²

• GFA MEASURED TO 'STANDARD INSTRUMENT' DEFINITION.
 • GFA MEASURED TO INSIDE FACE OF EXTERNAL WALLS. EXCLUDED: SERVICES RISERS AND VOIDS, PLANT ROOMS, VERTICAL CIRCULATION (STAIRS AND LIFTS).

FLOOR SPACE RATIO (%) 80.22

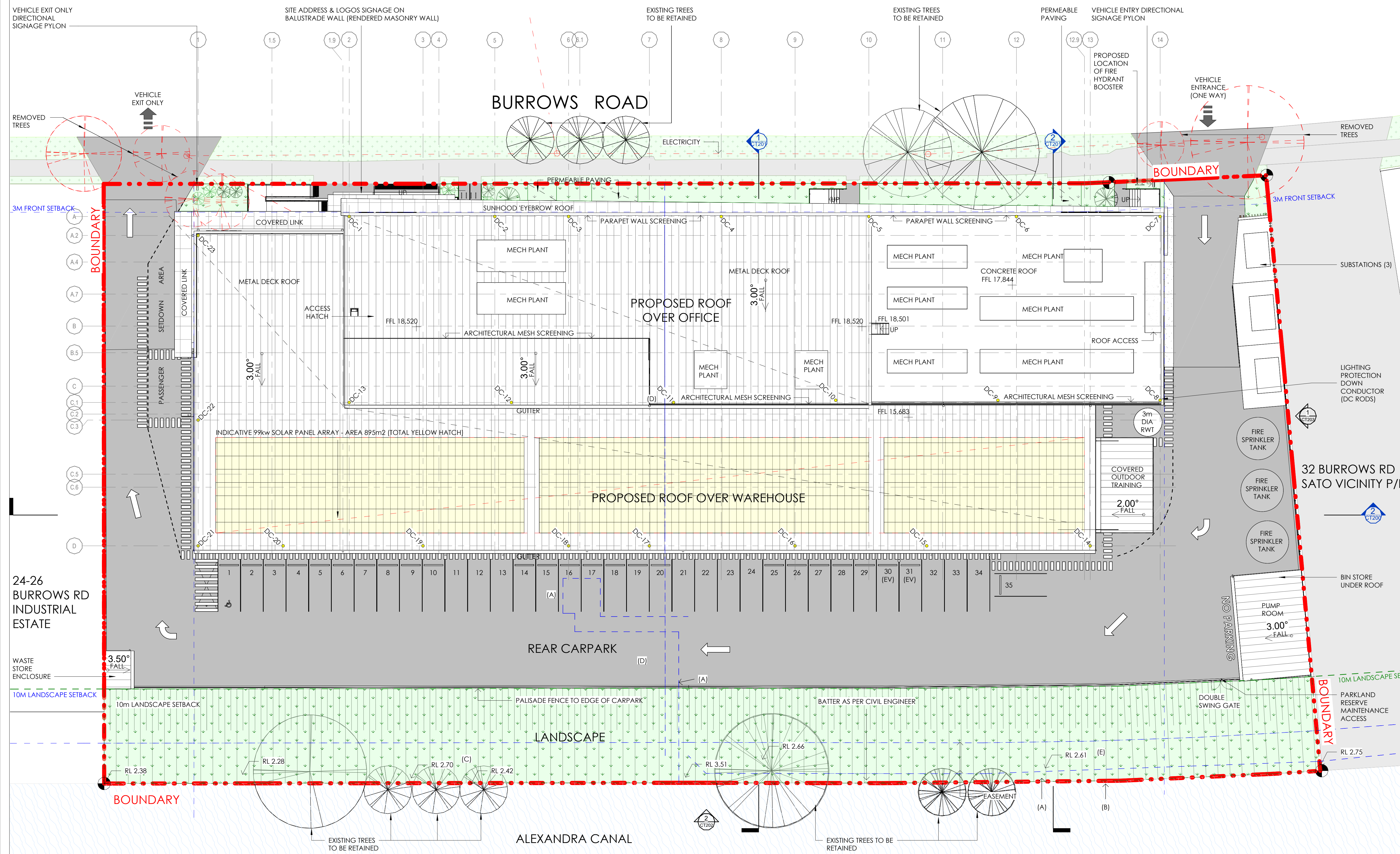
PARKING SUMMARY

TOTAL ACCESSIBLE PARKING BAYS PROVIDED = 1
 TOTAL CAR PARKING BAYS PROVIDED: 34+1 = 35
 TOTAL ELECTRIC VEHICLE CHARGING BAYS = 2

TOTAL BICYCLE PARKING BAYS PROVIDED: 4+20 = 24
 TOTAL FULL SIZE LOCKERS: 12 MALE + 12 FEMALE = 24

EASEMENT SUMMARY

(A)-EASEMENT FOR DRAINAGE OF SEWAGE 1.4 WIDE & VARIABLE WIDTH (DP1 188332)
 (B)-RESERVE 0.305 WIDE (DP 32332)
 (C)-EASEMENT FOR ACCESS 4.265 WIDE (VIDE BK 1925 No.170)
 (D)-EASEMENT FOR DRAINAGE 2.44 WIDE (VIDE BK 2596 No.880)
 (E)-EASEMENT FOR ACCESS 4.265 WIDE (BK 1938 No.673)



1 SITE PLAN
 1:200 A300

DISCLAIMER: NOTE 1: ALLOW +/- 50mm TO THE PROPOSED FINISHED FLOOR LEVEL. NOTE 2: BUILDING OVERALL DIMENSION (O/A) MEASURE TO OUTER-MOST FACE OF METAL CLADDING. NOTE 3: THE LOCATION OF PROPERTY ALIGNMENTS IS DETERMINED FROM SURVEY INFORMATION PROVIDED BY SURVEYOR. DO NOT SCALE THIS DRAWING. VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK. COPYRIGHT © THIS DRAWING REMAINS THE PROPERTY OF PACEARCHITECTS. REPRODUCTION IN WHOLE OR PART IS FORBIDDEN.

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SYDNEY FLIGHT TRAINING CENTRE
 28-30 Burrows Road, Sydney, Australia

PRELIMINARY

REVISION	DESCRIPTION	DATE
6	ISSUE FOR CLIENT SIGN-OFF	05.07.22
7	REVISED FIRE SPRINKLER TANKS (3 of)	12.07.22
8	REVISED ROOFTOP PARAPET	12.07.22
9	REVISED NORTHERN FACADE - CURTAIN GLASS WALL SETOUT AMENDED	20.07.22
14	ISSUE FOR CLIENT APPROVAL AS COUNCIL DEVELOPMENT APPLICATION DRAWING SET	07.09.22
15	COUNCIL MEETING REVISED WORK IN PROGRESS DRAWING SET	09.09.22
16	ISSUED FOR CONSULTANT CO-ORDINATION	20.09.22

ARCHITECT **PACE figurr ARCHITECTS**

DEVELOPER / LESSOR **LOGOS**

CLIENT **CAE QANTAS**

scale 1:200
 project no 220507
 date 20.09.22
 purpose PRELIMINARY
 SITE PLAN

scale 1:200
 project no 220507
 date 20.09.22
 dwn WL
 dwg no 220507 - CT100
 issue 16

Appendix I – Council Planning Certificates

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000

Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au
GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au



URBIS
235 Pyrmont St
PYRMONT NSW 2009

PLANNING CERTIFICATE

Under Section 10.7 of the Environmental Planning and Assessment Act, 1979

Applicant:	URBIS
Your reference:	ST PETERS
Address of property:	28-30 Burrows Road , ST PETERS NSW 2044
Owner:	Mr Ian Raymond Malouf
Description of land:	Lot 2 DP 212652, Lot 15 DP 32332
Certificate No.:	2021339428
Certificate Date:	29/11/21
Receipt No:	0187219
Fee:	\$80.00
Paid:	29/11/21

Title information and description of land are provided from data supplied by the Valuer General and shown where available.

A handwritten signature in black ink, appearing to be 'MB'.

Issuing Officer
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:

Ph: 9265 9333
Fax: 9265 9415

**PLANNING CERTIFICATE UNDER SECTION 10.7 (2) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

**MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).**

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone IN1 General Industrial (Sydney Local Environmental Plan 2012)

1 Objectives of zone

- To provide a wide range of industrial and warehouse land uses.
- To encourage employment opportunities.
- To minimise any adverse effect of industry on other land uses.
- To support and protect industrial land for industrial uses.
- To ensure uses support the viability of nearby centres.

2 Permitted without consent

Nil

3 Permitted with consent

Agricultural produce industries; Boat building and repair facilities; Depots; Food and drink premises; Freight transport facilities; Garden centres; General industries; Hardware and building supplies; Horticulture; Industrial training facilities; Kiosks; Light industries; Neighbourhood shops; Places of public worship; Roads; Roadside stalls; Timber yards; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Centre-based child care facilities; Charter and tourism boating facilities; Commercial premises; Community facilities; Correctional centres; Eco-tourist facilities; Educational establishments; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Function centres; Health services facilities; Heavy industries; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Passenger Transport facilities; Places of public worship; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Residential accommodation; Respite day care centres; Restricted premises; Rural industries; Self-storage units; Sex services premises; Tourist and visitor accommodation; Veterinary hospitals; Water recreation structures; Wholesale supplies

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

**Sydney Local Environmental Plan 2012 (as amended) – Published 14 December 2012
NSW Legislation Website.**

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

Planning Proposal: Amendment of Sydney Local Environmental Plan 2012 – Central Sydney

This Planning Proposal progresses key aims and objectives of the City of Sydney's Draft Central Sydney Planning Strategy. This is to be achieved by a range of amendments to Sydney Local Environmental Plan 2012 (the LEP).

Planning Proposal: Amendment of Sydney Local Environmental Plan 2012 – Open and Creative Planning Reforms

This planning proposal seeks a number of changes to the Sydney Local Environmental Plan 2012 (Sydney LEP 2012), and other relevant LEPs which aim to strengthen the city's cultural and night life and create a more diverse evening economy.

The planning proposal seeks to amend the following instruments: • Sydney Local Environmental Plan (LEP) 2012 • Sydney LEP 2005 • Sydney LEP (Green Square Town Centre) 2013 • Sydney LEP (Green Square Town Centre Stage 2) 2013 • Sydney LEP (Glebe Affordable Housing Project) 2011 • Sydney LEP (Harold Park) 2011 • South Sydney LEP 1998 • South Sydney LEP No. 114 (Southern Industrial and Rosebery/Zetland Planning Districts).

HERITAGE

State Heritage Register (Amendment To Heritage Act, 1977 Gazetted 2/4/99)

This property may be identified as being of state heritage significance, and entered on the State Heritage Register.

To confirm whether the site is listed under the Heritage Act 1977 a Section 167 Certificate should be obtained from the NSW Heritage Office by contacting the NSW Heritage office on (02) 9873 8500 for an application from or by downloading the application form from www.heritage.nsw.gov.au

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas

This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land

This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No. 64 – Advertising and Signage

This policy aims to ensure that signage (including advertising):
Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development

This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy No.70 – Affordable Housing (Revised Schemes) (Gazetted 31.05.02)

The policy identifies that there is a need for affordable housing in the City of Sydney, describes the kinds of households for which affordable housing may be provided and makes a requirement with respect to the imposition of conditions relating to the provision of affordable housing (provided other requirements under the Act are met).

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim 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.

State Environmental Planning Policy (State Significant Precincts) 2005

This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007

This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007

This Policy aims to facilitate the effective delivery of infrastructure across the state.

NB: This SEPP also contains exempt & complying provisions

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

This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying

development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009

Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pyrmont, or on southern employment land.

State Environmental Planning Policy (Urban Renewal) 2010

The aims of this Policy are as follows:

- (a) to establish the process for assessing and identifying sites as urban renewal precincts,
- (b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
- (c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011

The aims of this Policy are as follows:

- (a) to identify development that is State significant development,
- (b) to identify development that is State significant infrastructure and critical State significant infrastructure,
- (c) to confer functions on joint regional planning panels to determine development applications.

State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017

The aims of this Policy are:

- (a) to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and
- (b) to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.

State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017

The aim of this Policy is to facilitate the effective delivery of educational establishments and early education and care facilities across the state.

State Environmental Planning Policy (Coastal Management) 2018

The aim of this Policy is to promote an integrated and co-ordinated approach to land use planning in the coastal zone in a manner consistent with the objects of the [Coastal Management Act 2016](#), including the management objectives for each coastal management area, by:

- (a) managing development in the coastal zone and protecting the environmental assets of the coast, and
- (b) establishing a framework for land use planning to guide decision-making in the coastal zone, and
- (c) mapping the 4 coastal management areas that comprise the NSW coastal zone for the purpose of the definitions in the [Coastal Management Act 2016](#).

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment:

to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

**OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
E. P. & A. REGULATION, 2000. CLAUSES (2A) - (10)**

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

This SEPP does not apply to the land.

(3) Complying Development

- (1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18(1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.
- (2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18(1)(c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.
- (3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Note: All Exempt and Complying Development Codes: Council does not have sufficient information to ascertain the extent of a land based exclusion on a property. Despite any statement preventing the carrying out of complying development in the Codes listed below, complying development may still be carried out providing the development is not on the land affected by the exclusion and meets the requirements and standards of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

Housing Code, Commercial and Industrial (New Buildings and Additions) Code and Low Rise Housing Diversity Code

Complying development **may not** be carried out on the land under the Housing Code, the Commercial and Industrial (New Buildings and Additions) and the Low Rise Housing Diversity Code if because of the provisions of clause 1.17A, 1.18(1)(c3) & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

<ul style="list-style-type: none"> ▪ Clause 1.19(5)d. Land that is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997. (Applies only to the Commercial and Industrial (New Buildings and Additions) Code. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the <i>Heritage Act 1977</i> or that is subject to an interim heritage order under the <i>Heritage Act 1977</i>. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.17A(d) & 1.18(1)(c3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the <i>Wilderness Act 1987</i>. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.17A(e) & 1.19(1)e or 1.19(5)f. Has been identified as land that is within an environmentally sensitive area or by an environmental planning instrument as being within a buffer area, a river front area, an ecologically sensitive area, environmentally sensitive land or a protected area 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)a.or 1.19(5)a Has been identified as being within a heritage conservation area or a draft heritage conservation area. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)b or 1.19(5)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)c or 1.19(5)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)d or 1.19(5)e. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)f or 1.19(5)g. Has been identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)g or 1.19(5)h. Has been identified as being land in a foreshore area. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)h. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour. (Applies to the Housing Code & Low Rise Housing Diversity Code) 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)j or 1.19(5)i. Has been identified as unsewered land within a drinking water catchment. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(1)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998. 	NO
<ul style="list-style-type: none"> ▪ Clause 1.19(2) & 1.19(3)c Has been identified as land described or otherwise identified on a map specified in Schedule 5, and ceases to have effect on 31 December 2022. (Applies to the Housing Code & Low Rise Housing Diversity Code) 	NO

Housing Alterations Code

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

Commercial and Industrial Alterations Code

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

Subdivisions Code

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

Rural Housing Code

The Rural Housing Code does not apply to this Local Government Area.

General Development Code

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

Demolition Code

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

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

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This 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/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is not** affected by any road widening or road realignment under any planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

- (a) The land **is not** affected by a policy adopted by the Council that that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

- (b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

(1) If the land or part of the land is within the flood planning area and subject to flood related development controls

Property is within the flood planning area	YES
Property is outside the flood planning area	NO
Property is within a buffer zone	NO

(2) If the land or part of the land is between the flood planning area and the probable maximum flood and subject to flood related development controls

Property is between the flood planning area and probable maximum flood.	YES
Property is outside the flood planning area and probable maximum flood	NO
Property is within a buffer zone	NO

(3) In this clause—

flood planning area has the same meaning as in the Floodplain Development Manual.

Floodplain Development Manual means the *Floodplain Development Manual* (ISBN 0 7347 5476 0) published by the NSW Government in April 2005.

probable maximum flood has the same meaning as in the Floodplain

Development Manual.

(8) Land reserved for acquisition

No environmental planning instrument, or proposed environmental planning instrument applying to the land, provides for the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

<ul style="list-style-type: none"> ▪ Central Sydney Development Contributions Plan 2013 – in operation 9th July 2013 	NO
<ul style="list-style-type: none"> ▪ City of Sydney Development Contributions Plan 2015 – in operation 1st July 2016 	YES
<ul style="list-style-type: none"> ▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16th May 2007 	NO

Note: An affordable housing contribution may be payable as part of a development application or planning proposal under The City of Sydney Affordable Housing Program (Program) – in operation 1st July 2021

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biodiversity Conservation Act 2016

Not Applicable.

(10A) Native vegetation clearing set asides

Not Applicable.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

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

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

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure, schools or TAFE establishments

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

(19) Site verification certificates

The land to which the certificate relates is not subject to a valid site verification certificate of which Council is aware.

(20) Loose-fill asbestos insulation

Not Applicable

(21) Affected building notices and building product rectification orders

(1) The land to which the certificate relates is not subject to any affected building notice of which Council is aware.

(2) (a) The land to which the certificate relates is not subject to any building product rectification order of which Council is aware and has not been fully complied with.

(b) The land to which the certificate relates is not subject to any notice of intention to make a building product rectification order of which Council is aware and is outstanding.

(3) In this clause:

affected building notice has the same meaning as in Part 4 of the [Building Products \(Safety\) Act 2017](#).

building product rectification order has the same meaning as in the [Building Products \(Safety\) Act 2017](#).

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

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 10.7 (2) INFORMATION:

Information provided in accordance with planning certificate section 10.7 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

PLANNING CERTIFICATE UNDER SECTION 10.7 (5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

PLANNING CERTIFICATE SECTION 10.7 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Resolution of Council dated 25.2.1958 (14) approval to acquire (8') 2.44m wide drainage easement for the purpose of providing a stormwater outlet from Burrows Road to the Alexandria Canal.

Deed of Grant dated 11.11.1959 registered as. Conc. No. 880 Book 2596
Council Deed Packet No. 6761

Contaminated Land Potential:

Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 10.7 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:

Some City of Sydney Local Environmental Plans incorporate Acid Sulfate soil maps. Development on the land identified in those maps should have regard to the acid sulfate soil clause within the relevant Local Environmental Plan.

Construction Noise and View Loss Advice:

Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

Outstanding Notice & Order information

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order under Part 2 of Schedule 5 of the Environmental Planning and Assessment Act, 1979). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

Neighbourhood Parking Policy

The City of Sydney co-ordinates a Resident Permit Parking Scheme and a Visitor Permit Parking scheme. This property may be restricted from participating in either scheme. Eligibility may change after the date of this certificate, as parking supply and other traffic demands change. For more information contact Council's call centre on 9265 9333.

ADVICE FROM OTHER BODIES

Advice provided in accordance with planning certificate section 10.7 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 10.7 (6) of the Environmental Planning and Assessment Act, 1979).

Planning certificate section 10.7 (2), local planning controls are available are available online at www.cityofsydney.nsw.gov.au

**General Enquiries:
Telephone: 02 9265 9333**

Town Hall House
Level 2
Town Hall House
456 Kent Street
Sydney
8am – 6pm Monday - Friday

State planning controls are available online at www.legislation.nsw.gov.au


*Where planning certificate section 10.7 (5) matters are supplied, complete details are available by writing to:
Chief Executive Officer
City of Sydney
G.P.O. Box 1591
Sydney NSW 2000*

End of Document

Appendix J – Aerial Photographs



Legend

 Approximate Site Boundary



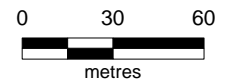
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500



Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1943**

FIGURE 1943



Legend

 Approximate Site Boundary



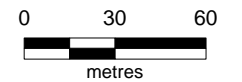
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500

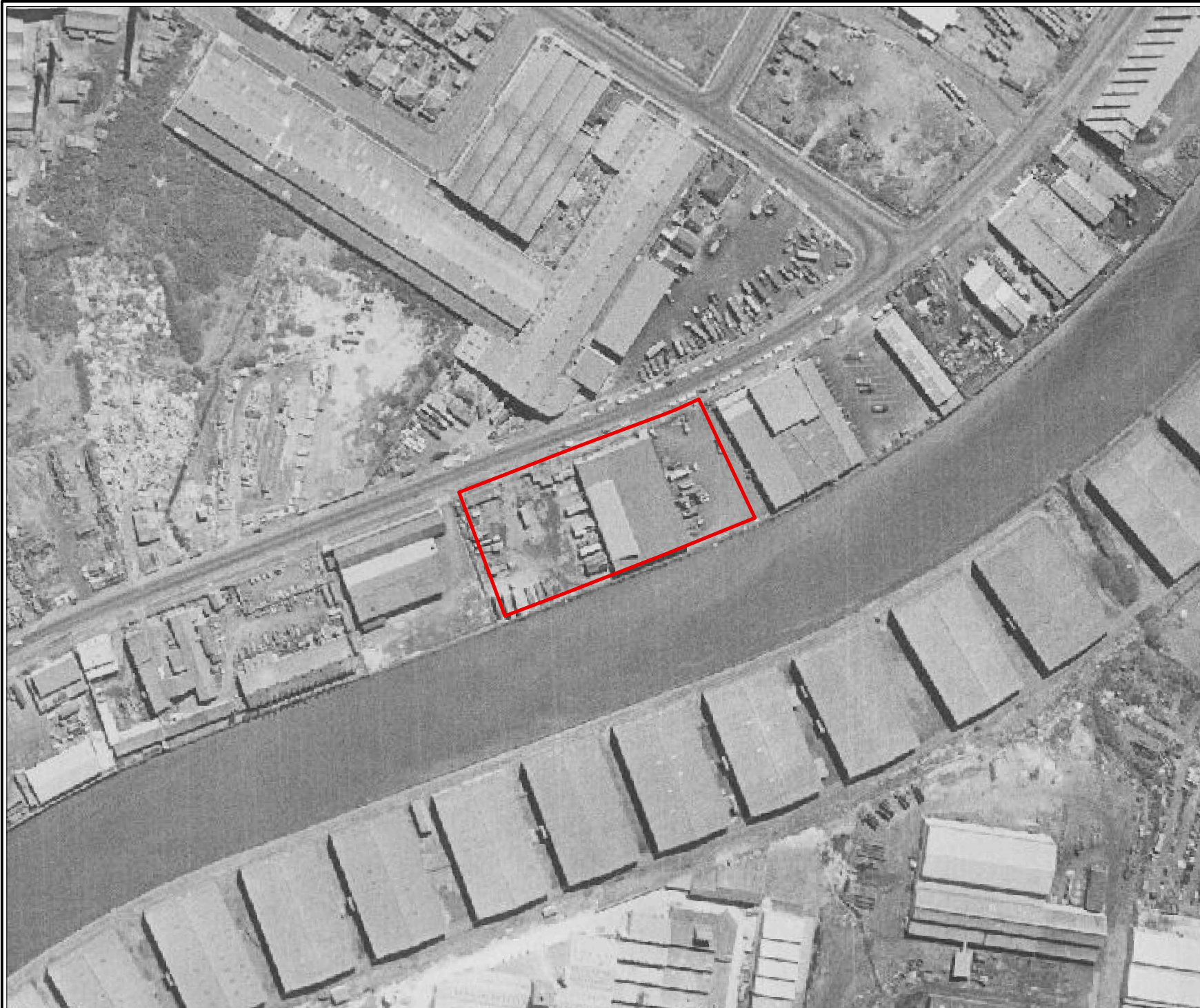


Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1955**

FIGURE 1955



Legend

 Approximate Site Boundary



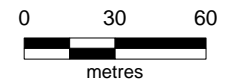
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500

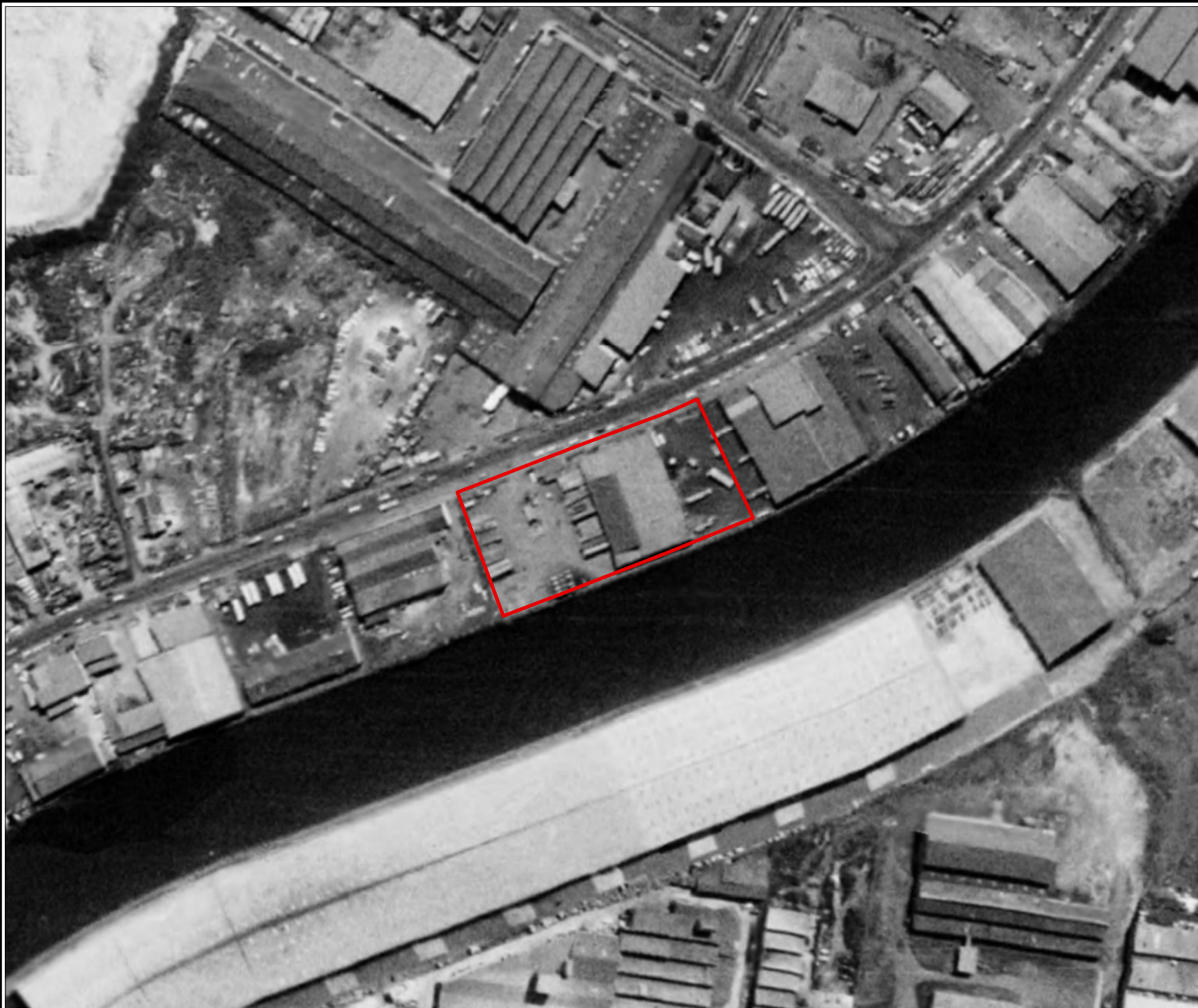


Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1965**

FIGURE 1965



Legend

 Approximate Site Boundary



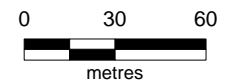
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500

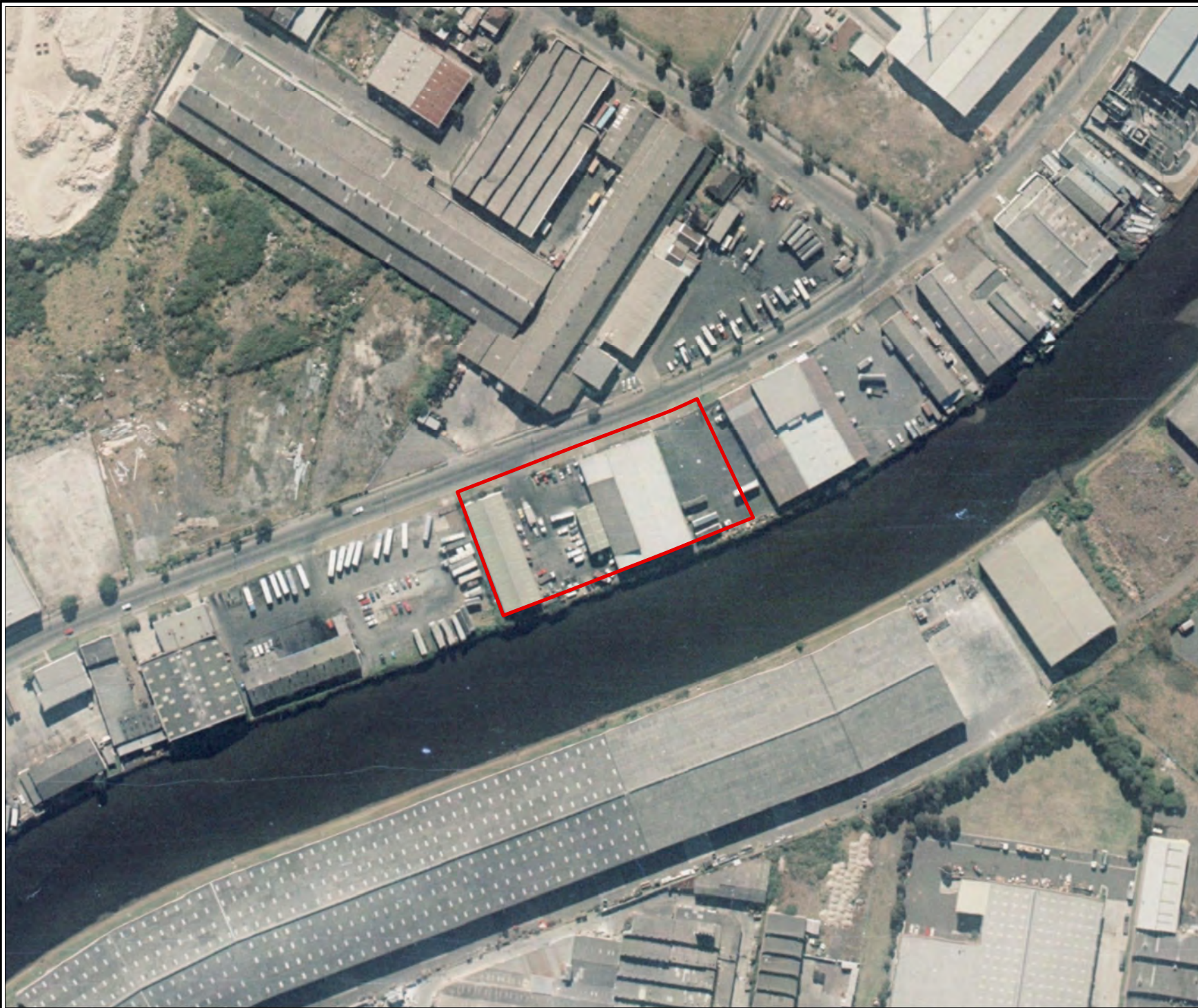


Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1975**

FIGURE 1975



Legend

 Approximate Site Boundary



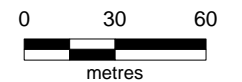
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500



Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1986**

FIGURE 1986



Legend

 Approximate Site Boundary



Job No: 63126

Client: Logos

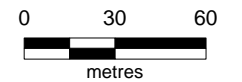
Version: R01 Rev A

Date 7/06/2022

Drawn By: YY

Checked By: CB

Scale 1:2,500



Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 1994**

FIGURE 1994



Legend

 Approximate Site Boundary



Job No: 63126

Client: Logos

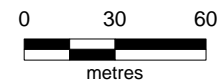
Version: R01 Rev A

Date 7/06/2022

Drawn By: YY

Checked By: CB

Scale 1:2,500

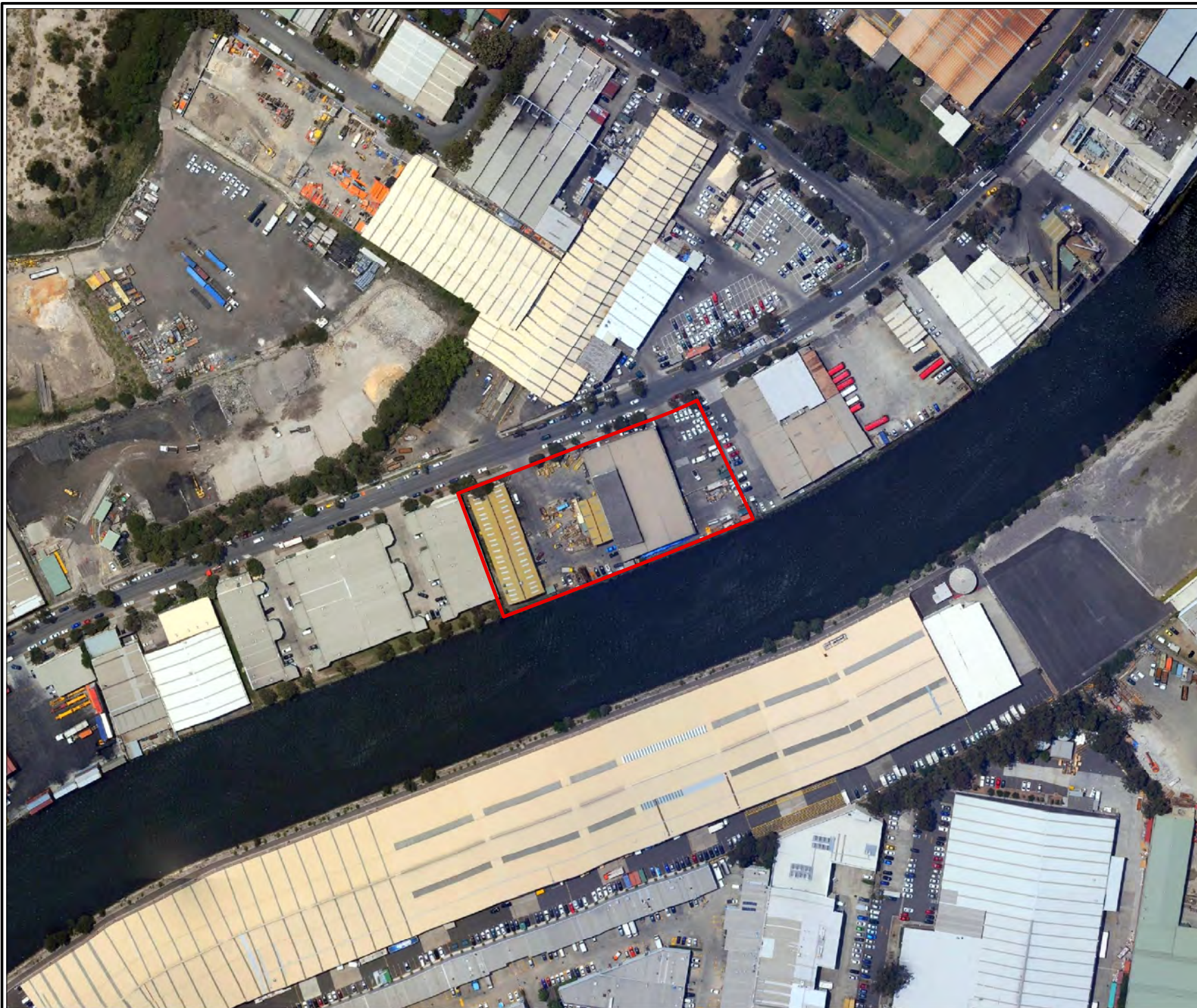


Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 2005**

FIGURE 2005



Legend

 Approximate Site Boundary



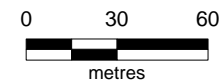
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500



Coord. Sys. GDA 1994 MGA Zone 56


**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 2012**

FIGURE 2012



Legend

 Approximate Site Boundary



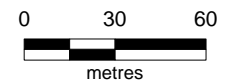
Job No: 63126

Client: Logos

Version: R01 Rev A Date 7/06/2022

Drawn By: YY Checked By: CB

Scale 1:2,500



Coord. Sys. GDA 1994 MGA Zone 56

**28-30 Burrows Rd,
St Peters, NSW**

**HISTORICAL AERIAL
PHOTOGRAPH - 2022**

FIGURE 2022

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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Chris Bielby	Greg Dasey	Draft for client review		8 June 2022
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1	Chris Bielby	Matthew Parkinson			30 September 2022
2	Chris Bielby	Matthew Parkinson			26 October 2022
3	Chris Bielby	Matthew Parkinson			26 October 2022

