



K2 CONSULTING GROUP

Environmental Site Assessment

213A Kings Cross Road, Cabramurra NSW 2629

Prepared for: Selwyn Snow Resort Pty Ltd



Department of Planning
and Environment

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1. INTRODUCTION

K2 Consulting Group (K2) was engaged by Selwyn Snow Resort Pty Ltd (Client) to undertake an Environmental Site Assessment of an area (effluent absorption trench area) within the property located at 213A Kings Cross Road, Cabramurra NSW 2629 (hereafter referred to as 'the Site'). The site can be identified as Lot 36 of DP 46316 and is in the Snowy Monaro Regional Council Local Government Area (LGA).

The effluent absorption area covers approximately 410 m² and is defined as the area of environmental concern (AEC) for this investigation. The AEC was previously used to discharge treated effluent from a sewage treatment system using sub-surface absorption trenches. The design and the principles of the treatment system were not known at the time of the investigation.

This report has been prepared in general accordance with the provisions for an Environmental Site Assessment as defined within the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Sites and National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPM, 2013), NSW EPA, Contaminated Sites, Sampling Design Guidelines (NSW EPA, 1995) and other relevant guidelines.

2. OBJECTIVES

The objectives of the environmental assessment were to identify potential sources of contamination and evaluate the associated contaminants of potential concern (CoPC), identify areas of potential contamination, identify potential human and ecological receptors, and identify potentially contaminated soil. It is understood that the report is required to establish any potential soil contamination risks before the construction of a new Sewage Treatment Plant (STP) that is proposed to be built at the AEC. The construction of the STP will require the excavation of soils from the AEC and hence this investigation will allow for evaluating the contamination status and waste classification of the excavated material.

3. SCOPE OF WORKS

The scope of works undertaken to prepare this Environmental Site Assessment (ESA) report included the following:

- Preparation of a soil sampling program;
- Site walkover inspection noting any potential for contamination and the identification of potential sources and/or receptors;
- Collection of soil samples from ten (10) test pits to a maximum depth of 0.7m BGL, or prior refusal undertaken within the AEC using a systematic sampling pattern;
- Analysis of ten (10) selected soil samples for a range of CoPC including Heavy metals/metalloids (Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury, and Zinc, Total Recoverable Hydrocarbons (TRH), Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (BTEXN), Organo Chlorine, and Organo Phosphate Pesticides (OCP/OPP), Asbestos, Nutrients (Total Nitrogen (N), Total Kjeldahl Nitrogen (TKN), Nitrogen Oxide (NO_x), Nitrite (NO₂), Nitrate (NO₃), Ammonia (NH₃) and Total Phosphorus (P), and microbial contamination (faecal coliforms); and
- Preparation of an Environmental Site Assessment report in accordance with the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Sites and National Environment

Protection (Assessment of Site Contamination) Measure 1999 (NEPM, 2013) and other relevant guidelines.

4. SITE DESCRIPTION

The subject area is located within the Selwyn Snow Resort at 213A Kings Cross Road, Cabramurra NSW 2629, identified as Lot 36 on DP 46316 within the Snowy Monaro Regional Council and Kosciuszko National Park. The AEC (approximately 410 m²) has been historically used for discharging treated sewage effluent and is located to the north of Selwyn Resort Pty Ltd. The site locality and the Subject Area of Environmental Concern (AEC) are presented in **Figure 1** and **Figure 2** respectively.

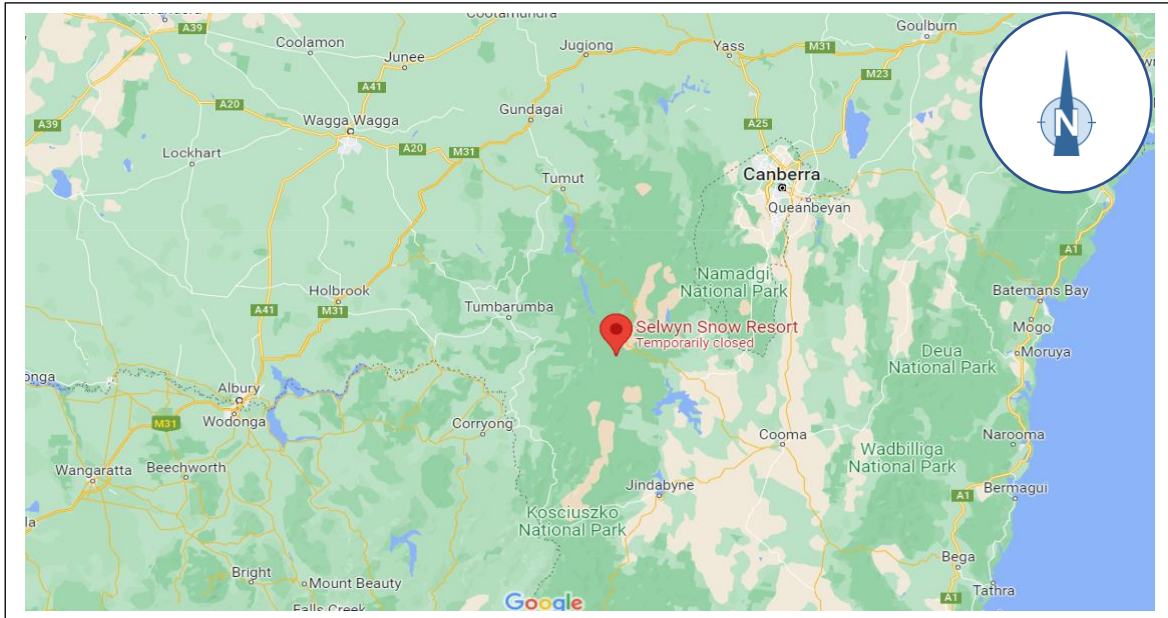


Figure 1. Site locality map accessed via Google Maps.



Figure 2. Location for Area of Environmental Concern (AEC)

The resort and its facilities were damaged during the bushfire in 2019 and are currently being renovated. The renovation will include decommissioning of the old STP system and associated absorption trenches. The area for the proposed construction of the new STP is presented in **Figure 5**.

A summary of the site information is provided in **Table 1** below.

Table 1. Site Identification Details

| Item | Description |
|--|--|
| Current Site Owner | Selwyn Snow Resort Pty Ltd |
| Site Address | 213A Kings Cross Road, Cabramurra NSW 2629 |
| Legal Description | Lot 36 on DP 46316 |
| Local Government Authority | Snowy Monaro Regional Council |
| Subject area of investigation | 410 m ² |
| Elevation (m AHD) | 1556 |
| Geographical Location (GDA94-MGA56) | Lat -35.905541267, Lon 148.450022722 |

4.1. Surrounding Land Use and proximity to environmentally sensitive area

The Site is located within the Nature Conservation zoning of Snowy Monaro Regional Council. Adaminaby is the closest residential town located approximately 29 km southeast of the site.

4.2. Site Description

The soil investigation works were undertaken by an experienced environmental consultant from K2 Consulting Group on 10th May 2022. The following site features were observed during the site investigation and are summarised below:

- Construction activities relevant to the resort renovations works were observed to the south of the AEC;
- A above-ground gas tank unit was located approximately 10 m west of the subject area. The nature of the gas stored in this tank is not known;
- A car park constructed with asphalt was observed 100 m south-west of the AEC; and
- Most areas are covered with vegetation. No visual or olfactory signs of contamination, including staining or stressed vegetation, were observed in the soils within the AEC.

Relevant site features are presented in **Figure 5** of this report (Refer to **Appendix I**).

5. SITE SETTINGS

5.1. Hydrology and Site Topography

The subject area is elevated in the southern section and inclines towards the north (Source: Espade website accessed on 12th May 2022). Any surface runoff is expected to flow from the southern section of the site to the north. The closest water body to the site is the Three Mile Creek approximately 1.5 km north of the site. Snow and ice are expected in the area during the winter months of July and August and it's expected to melt during October.

5.2. Lithology and Geology

The site is predominantly underlain by Gooandra volcanic member of the Kiandra Group. The Gooandra volcanic member is underlain by Metabasalt, basalt breccia (emplaced as pillow lavas), amphibolite, chloritic schists, feldspathic sandstone; aphyric and feldspar-phyric basalt, basaltic lava breccia, rhyolite, shale; fine-grained feldspathic siltstone and shale. (Refer to **Figure 3**). The geological information was collected from www.minview.geoscience.nsw.gov.au database accessed on the 13th of May 2022.

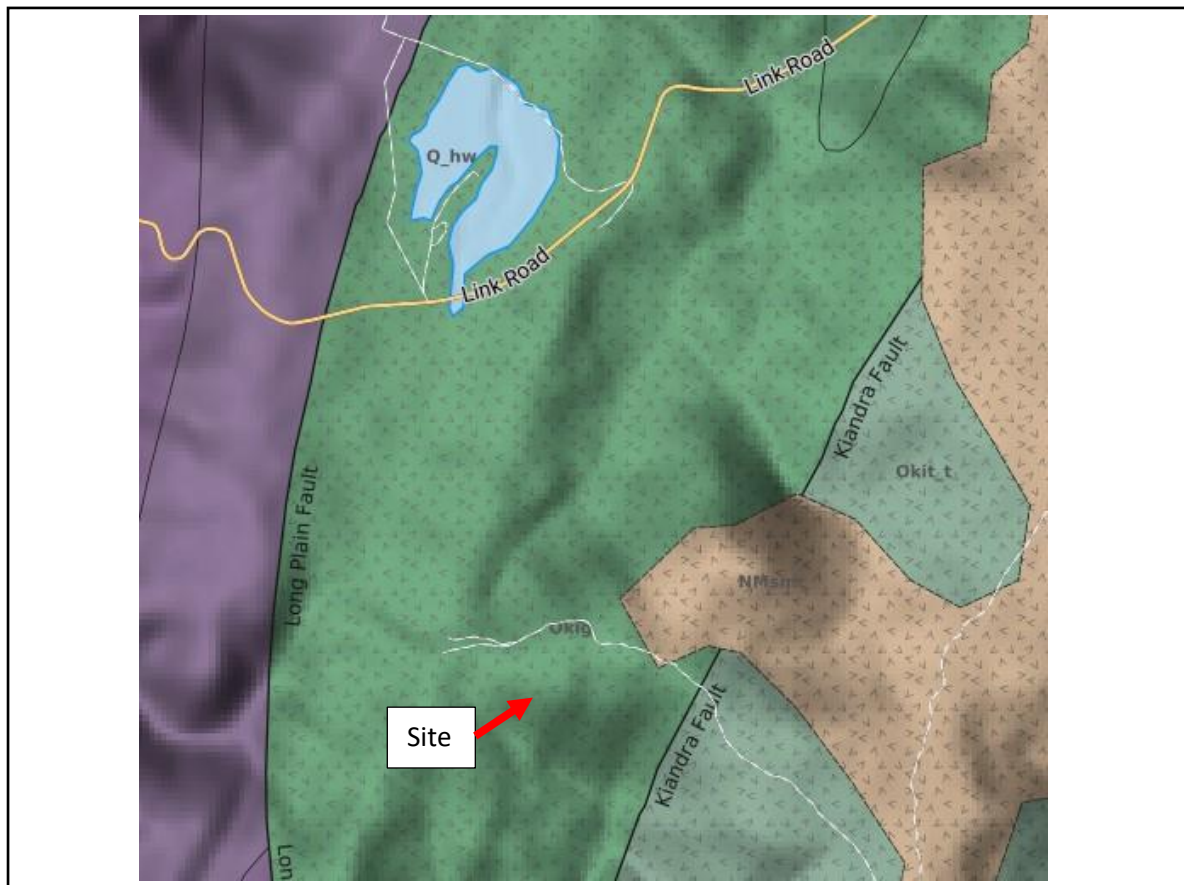


Figure 3. Geological map of the approximate site location.

5.3. Acid Sulphate Soils

A review of the Australian Soil Resource Information Systems (ASRIS) Acid Sulphate Soil map indicated that the site is classified within C4 – extremely low probability and very low confidence. (Refer to Figure 4).

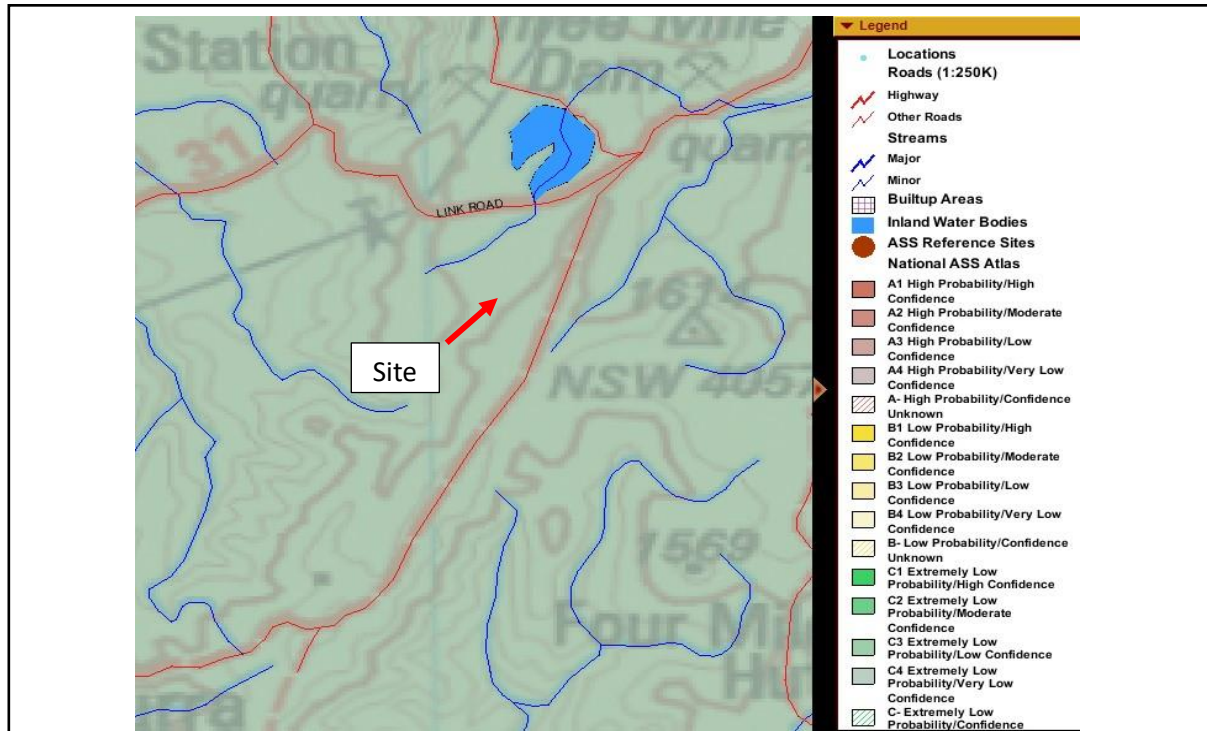


Figure 4. Acid Sulphate Soil ASRIS review. Database accessed on 13th May 2022.

6. CONCEPTUAL SITE MODEL

A conceptual site model (CSM) is a tool that relates identified impacts of potentially contaminated source areas based on interpretation of the geology/hydrogeology and contaminant migration pathways to the receptors (environment and/or human). A CSM provides a discussion of the nature and extent of impacts, and relevant source-pathway-receptor (SPR) linkages.

The linkage between SPR in the CSM examines scenarios of whether the exposure pathway exists as complete, potential, or incomplete exposure. The status of the exposure pathway determines the presence of risk to the environment and/or human health. SPR linkage categories are summarised as follows:

- Complete: All elements are present. Potential risk exists;
- Potentially complete: one or more of the elements may not be present, and /or information is insufficient to eliminate or exclude the element. The potential for risk exists; and
- Incomplete: one or more of the elements are absent. The risk to the receptor does not exist.

In accordance with ASC NEPM (2013) Schedule B2 – Guideline on Site Characterisation and to aid in the assessment of data collection for the site, K2 developed a preliminary CSM, to evaluate potential

risk from the SPR scenarios. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation.

Based on the historical information review and field visit, a CSM was developed which is summarised in **Table 2**.

6.1. Potential Sources and Associated Contaminants of Concern

Based on the site visit and historical information review, the following contamination sources are likely to be present:

- Potential imported fill material on-site;
- Application of historical pesticides for land management activities on the site and surrounding areas of the site; and
- Effluent from the absorption trenches;

6.2. Potential Contaminants of Concern

Based on the review of the historical use of the site, the COPC at the site are:

- Heavy metals/metalloids (Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury, and Zinc, Total Recoverable Hydrocarbons (TRH), Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (BTEXN), PFAS, Organo Chlorine and Organo Phosphate pesticides (OCP/OPP), and Asbestos.
- Nutrients - Total Nitrogen (N), Total Kjeldahl Nitrogen (TKN), Nitrogen Oxide (NOX), Nitrite (NO₂), Nitrate (NO₃), Ammonia (NH₃), and Total Phosphorus (P); and
- Microbial contaminants (Faecal *Coliforms*)

The CSM presented in **Table 2** is based on site-specific data to reflect the conditions known to exist on-site and exposure to the occupants of the proposed land use. The potential contamination sources, exposure pathways, and human and environmental receptors that were considered relevant for this assessment are summarized along with a qualitative assessment of the potential risks posed when the exposure pathways are complete as presented in **Table 2** below.

Table 2. Conceptual Site Model

| Source | Contaminants of Potential Concern (CoPC) | Affected Areas | Primary Release Mechanism | Secondary Release Mechanism | Potential Impacted Media | Exposure Pathways | Potential receptors | The Potential risk of Complete exposure pathway |
|---|---|---|--|--|--|---|---|---|
| Imported fill material within the trenches | TRH, BTEX, PAH, Metals, OCP, OPP, Asbestos | Across the AEC | Placement of fill materials on site | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Construction personnel involved in the development of the site, Future staff and visitors | Complete |
| | | | | | | | Groundwater | Incomplete |
| Historical usage of pesticides in the surrounding areas | OCP, OPP, heavy metals | Across the site, with particular emphasis on soils in the grassed areas | Use of pesticides for landscaping/land management activities | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Construction personnel involved in the development of the site, Future staff and visitors | Complete |
| | | | | | | | Groundwater | Complete |
| Surface runoff from the effluent treatment plant | Nutrients (Total N, TKN, NOX, NO2, NO3, NH3, Total P) | Across the AEC | Effluent treatment plant/Septic system operation in the subject area | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Construction personnel involved in the development of the site, Future staff and visitors | Complete |
| | | | | | | | Groundwater | Complete |
| Surface runoff from the effluent treatment plant | Faecal coliforms | Across the AEC | Effluent treatment plant/Septic System operation in the subject area | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Construction personnel involved in the development of the site, Future staff and visitors | Complete |
| | | | | | | | Groundwater | Complete |

7. Field Investigation Methodology

7.1. Soil Investigation

A total of ten (10) test pits were excavated using an 8-ton excavator to a maximum depth of 0.7 m below ground level (BGL). Sampling locations were undertaken based on a systematic sampling pattern. Ten (10) primary soil samples and one (1) blind duplicate sample were collected and analysed for the CoPC.

Soil samples were collected from the top 0.0-0.4 m BGL in the AEC based on the field observations and if any apparent contamination was noted. Shale was encountered approximately between 0.2-0.7 m BGL as the AEC was inclined towards north. Photo-Ionisation Detector (PID) readings were not taken and during excavation, no indications of volatile hydrocarbons, odour, and staining were observed.

Field observations and visual soil indicators such as staining, odour, and discolouration, were considered during the collection of samples and are recorded in the test pit logs (**Appendix III**).

7.2. Sampling Procedures

Soil samples were collected by wearing disposable nitrile gloves, which were changed between each sample. Soil samples marked for chemical analysis were carefully placed in glass jars supplied by the laboratory. The jars were filled with soil samples to minimise any headspace.

Approximately 30-50 g of soils were placed in zip lock bags for asbestos analysis (presence/absence method).

All field observations were noted in the field sheet including, unique sample identification, sample description, sampling coordinates, soil profiles, and borehole numbers.

7.3. Sample Transportation

The jars were placed in a precooled icebox (approximately 4° C) with ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to the laboratories under Chain of Custody (COC) forms.

All samples will be stored in the laboratories for a specified period following the receipt of samples. Should any anomalies be detected in the first round of analysis additional investigation such as additional analysis or leachate testing will be carried out.

7.4. Collection of Blind samples

A representative soil media was split into two portions with minimal disturbance and placed in two jars prepared by the laboratory. One jar was named with the Primary sample ID and the other jar was named with the blind sample ID. The Primary and Blind samples were sent to the primary laboratory – Eurofins | MGT.

7.5. Decontamination Procedures

The materials used for sampling were cleaned with water/detergent spray and rinsed with water and ensured that no cross-contamination could occur from other sampling locations from any apparent debris. This decontamination procedure was followed between the sampling locations within the site.

Any excess soils collected during the investigation were placed within the borehole and reinstated. No soils from the drilling program were taken offsite for disposal.

7.6. Laboratory Analysis

Chemical Analysis

A total of 10 primary soil samples were collected during field investigations and sent to Eurofins | MGT (Eurofins) for the analysis of the CoPC.

In addition, one blind intra-laboratory replicate sample (BR1) was analysed by Eurofins for QC purposes. Eurofins is accredited by the National Association of Testing Authorities, Australia (NATA) for the analysis tested.

Asbestos Analysis

Ten (10) primary samples collected were sent to Australian Safer Environment and Technology (ASET) for the analysis of asbestos in soils. The samples were tested for the presence/absence of asbestos in soils (AS 4964-2004 method).

Microbial Analysis

Ten (10) soil samples collected were sent to Eurofins for the microbial analysis of total Coliforms (Faecal).

8. SITE ASSESSMENT CRITERIA

8.1. Soil Assessment Criteria

The site assessment criteria (SAC) used in this investigation were adopted from the Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure (1999), as amended in 2013.

8.1.1. Health Investigation Levels (HILs)

The NEPM guidelines have established the following four generic land-use settings for the assessment of human health risks from a broad range of organic and inorganic contaminants (Tier 1 assessment).

- HIL A - Residential with garden/accessible soil (homegrown produce <10% fruit and vegetable intake, (no poultry), also includes children's day-care centres, preschools, and primary schools;
- HIL B - Residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats;
- HIL C - Public open spaces such as parks, playgrounds, playing fields (e.g., ovals), secondary schools, and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate; and
- HIL D - Commercial/industrial such as shops, offices, factories, and industrial sites.

Based on the current land use and the proposed land use (development of a snow resort), **HIL C (Public open spaces)** was considered as the appropriate criteria (Tier 1 screening criteria) relevant to this investigation. Currently, there are no Health Investigation Levels for Nutrients and Microbial concentrations from effluent operation in soils. The concentration of nutrients shall be reduced to background levels. Faecal microbial colonies cannot be identified in the natural environment.

8.1.2. Health Screening Levels (HSLs)

The HSLs were established for specific petroleum hydrocarbon fractions to assess the human health risk from vapour inhalation and direct contact pathways. The HSLs can vary depending on the physio-chemical properties of the soil, soil depth, and the presence of any building structures on site. The HSLs adopted for this investigation were Clay (Clay, clay loam, and silt loam) and are summarised in Site Assessment Criteria **Table 3**.

8.1.3. Management Limits

Management limits apply to petroleum hydrocarbon fractions (F1, F2, F3, and F4) and indicate the maximum acceptable values on a site, and apply to all soil depths if any petroleum hydrocarbon contamination is identified on a site. Management limits should be considered to identify the presence of phase-separated hydrocarbons, gross contamination, any potential fire or explosive risks, and damage to buried infrastructure and aesthetics of the site.

Based on the current and future development, the Management Limits adopted during this investigation are 'Public open spaces'.

8.1.4. Ecological Investigation Levels (EILs)

No Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) are applicable for the purpose of this investigation.

8.1.5. Asbestos in soils

Asbestos in soils was analysed by the Australian Standard AS 4964-2004 (Method for the qualitative identification of asbestos in bulk samples) by a NATA accredited laboratory. The presence of asbestos was used as an indication to assess the soils for any risks from asbestos. If any samples were identified to be positive or if any Asbestos Containing Material (ACM) is observed on soils, a detailed asbestos investigation may be recommended.

8.1.6. Acceptable statistical analysis

The contaminated soils concentration that meets the following criteria will be considered acceptable:

- The maximum concentration of analytes in all samples meet the adopted acceptance criteria; or
- The 95% upper confidence limit (UCL) concentration of each contaminant is below the adopted acceptance criteria; and
- No individual exceedance is greater than 2.5 times the acceptance criteria.

A location will be a 'hot spot' and requires further management, including additional assessment and remediation if:

- The concentration of a contaminant is greater than 2.5 times the acceptable adopted criteria; and
- The 95% UCL average concentration is above the adopted acceptance criteria

Table 3. Adopted Site Assessment Criteria

| Analytes | Health Investigation Levels (C) ¹ | Health Screening Levels Public open spaces (C) ² | | Management Limits (C) Fine soils (mg/kg) |
|---|--|---|------------------------|--|
| | | HSL (mg/kg) ³ | Direct Contact (mg/kg) | |
| Arsenic (total) | 300 | - | - | - |
| Cadmium | 100 | - | - | - |
| Chromium (Total) | 240 | - | - | - |
| Copper | 20000 | - | - | - |
| Lead | 600 | - | - | - |
| Mercury (inorganic) | 400 | - | - | - |
| Nickel | 800 | - | - | - |
| Zinc | 30000 | - | - | - |
| Polycyclic aromatic hydrocarbons (PAHs) | 400 | - | - | - |
| Carcinogenic PAHs (As BaP TEQ) | 4 | - | - | - |
| Phenols | 45000 | - | - | - |
| DDT+DDE+DDD | 400 | - | - | - |
| Aldrin and Dieldrin | 9 | - | - | - |
| Chlordane | 80 | - | - | - |
| Endosulfan | 400 | - | - | - |
| Endrin | 20 | - | - | - |
| Heptachlor | 9 | - | - | - |
| Hexachlorobenzene | 15 | - | - | - |
| Methoxychlor | 500 | - | - | - |
| Chlorpyrifos | 300 | - | - | - |
| Benzene | - | NL | 120 | - |
| Toluene | - | NL | 18000 | - |
| Ethyl Benzene | - | NL | 5300 | - |
| Xylene | - | NL | 15000 | - |
| Naphthalene | - | NL | 1900 | - |
| TRH: C6 – C10 (F1) | - | NL | 5100 | 800 |
| TRH: C10-C16 (F2) | - | NL | 3800 | 1000 |
| TRH: C16- C34 (F3) | - | - | 5300 | 3500 |
| TRH: C34 – C40 (F4) | - | - | 7400 | 10000 |

Notes:

1. HIL C - Public open spaces such as parks, playgrounds, playing fields (e.g., ovals), secondary schools, and footpaths.
2. Health Screening Levels (HSL) for surface soils 0 m to <1 m where applicable. NL - Not Limiting.
3. Silt (silt, silty clay, and silty clay loam) criteria were adopted.

9. RESULTS AND DISCUSSION

9.1. Field Observations

The AEC is located on a slope, elevated on the south and inclining towards the north. During soil sampling using test pits, absorption trenches were observed at an approximate depth of 0.3 m BGL. The bottom of the absorption trenches was not observed as the test pits were terminated upon encountering trenches and hence the thickness of the gravel materials in the trenches was not known. The trenches were observed in the test pit locations TP3, TP7, and TP 10.

General soil lithology is provided in **Table 4** below.

Table 4. Soil lithology

| Soil profile | Depth (m BGL) | Soil type |
|--------------------------|--|---|
| Topsoil/Reworked natural | 0.0m - 0.4m BGL 0.0m - 0.7 m BGL at TP4 0.0m – 0.6m BGL at TP5 | Topsoil. Gravelly clayey silt. Natural or reworked natural type. Light to dark brown. Dry and organic material. |
| Natural Rock | 0.0m-0.4m BGL 0.7 m BGL at TP4 0.6m BGL atTP5 | Generally, shale or sandstone was observed |

9.2. Discussion of Analytical Results – Soil

A summary of laboratory results is provided in the laboratory certificates presented in **Appendix IV**.

Heavy Metals

The concentration of heavy metals was reported below the Health Investigation Levels (HIL-C) for all CoPC analysed.

TRH/BTEX

The concentrations of TRH/BTEX were below the laboratory Limit of reporting (LOR) and hence were below the adopted SAC (HSL-C).

PAH

The concentrations of PAH were below LOR, below the adopted SAC (HSL-C).

OCP/OPPs

The concentrations of OCP/OPPs were below LOR, and below adopted SAC (HIL-C).

Asbestos

No ACM fragments were observed on-site during the site walkover or the soil sampling program. No asbestos was detected in any of the soil samples presented to the laboratories for analysis. Based on field observation and laboratory analysis, it can be concluded that no asbestos was detected in the investigated area. If any fragments or any asbestos in other forms are detected in the soils onsite, an unexpected finds procedure shall be implemented immediately.

Nutrients

There are currently no assessment criteria for the Nutrients - Total Nitrogen (N), Total Kjeldahl Nitrogen (TKN), Nitrogen Oxide (NOX), Nitrite (NO₂), Nitrate (NO₃), Ammonia (NH₃), and Total Phosphorus (P) in soil. The concentration of Total Nitrogen (as N) and Phosphorous is an indicator of the previous land usage in the AEC as a treated effluent absorption trench system. A summary of total nitrogen and phosphorous are presented in **Table 5** below.

Table 5. Summary of nutrient results

| Sample ID | Sample Date | Total Nitrogen (mg/kg) | Total Phosphorous |
|-----------------|-------------|------------------------|-------------------|
| ST-01-1482-TP1 | 10.05.2022 | 530 | 460 |
| ST-01-1482-TP2 | | 1800 | 360 |
| ST-01-1482-TP3 | | 1200 | 300 |
| ST-01-1482-TP4 | | 40 | 440 |
| ST-01-1482-TP5 | | 350 | 280 |
| ST-01-1482-TP6 | | 1100 | 380 |
| ST-01-1482-TP7 | | 730 | 390 |
| ST-01-1482-TP8 | | 920 | 350 |
| ST-01-1482-TP9 | | 1900 | 350 |
| ST-01-1482-TP10 | | 900 | 270 |

Microbial

There are currently no assessment criteria for total Coliforms in soil. The microbial concentration in the soil samples is an indicator of the previous land usage in the subject area as a treated effluent absorption trench system. **Table 6** presents a summary of microbial concentration results in the soil samples analysed.

Table 6. Summary of Total Coliforms in the soil samples

| Sample ID | Sample Date | Limit of Quantification (LOQ) | Total Coliforms (MPN/g) |
|-----------------------|-------------|-------------------------------|-------------------------|
| ST-01-1482-TP1-MCR1 | 10.05.2022 | 1 | 1100 |
| ST-01-1482-TP2-MCR2 | | 1 | 63 |
| ST-01-1482-TP3-MCR3 | | 1 | 120 |
| ST-01-1482-TP4-MCR4 | | 1 | >24000 |
| ST-01-1482-TP5-MCR5 | | 1 | >24000 |
| ST-01-1482-TP6-MCR6 | | 1 | 790 |
| ST-01-1482-TP7-MCR7 | | 1 | 420 |
| ST-01-1482-TP8-MCR8 | | 1 | 230 |
| ST-01-1482-TP9-MCR9 | | 1 | 1200 |
| ST-01-1482-TP10-MCR10 | | 1 | 4400 |

10. QUALITY ASSURANCE AND QUALITY CONTROL

10.1.1. Duplicate samples

Blind duplicate samples were used to identify any variation in analyte concentration from samples collected from the same sampling point and ensure the repeatability of the laboratory's analysis method. A split duplicate sample was collected to determine the analytical proficiency of the laboratories.

The acceptance criteria for quality control samples as stipulated in AS4482.1-2005 indicates that a 30-50% range of the mean concentration of the analyte (RPD) is acceptable with the below criteria adopted for this purpose:

- RPD 30% for organics and RPD 50% for inorganics - if concentration greater than or equal to 10x the laboratory Detection Limit (LOR);
- No limit - if the primary and duplicate concentration is less than 10 x the LOR; and
- If both sample values are less than the LOR, the RPD is not calculated

A summary of the RPD between the primary and duplicate samples from one test pit (TP1) is provided in **Table 7** below. No asbestos was detected in the primary blind duplicate samples.

The surrogate spikes undertaken by the laboratory for the contaminants of potential concern meet the control limits of 50-150%. A review of the holding times of the analytes indicated that all samples were provided to the laboratory under suitable cold chain conditions and within the holding times prescribed. The RPDs and the lab comments indicate that sample collection and handling have been undertaken in accordance with the acceptable limits and no anomalies were detected. Standard analytical methods used during this investigation were accredited by NATA. Eurofins Laboratory was used as a primary laboratory for chemical analysis and microbial analysis. ASET was used as the primary laboratory for asbestos analysis in the soil samples. All chain of custody and field documentation was reviewed and or in accordance with the data quality assessment indicators. The samples were collected by an experienced field consultant and soil profiles and other observations were noted during the investigation.

The analysis of the QA/QC program indicates that the data obtained from this investigation undertaken by K2 Consulting Group can be considered reliable and representative of the soil conditions on-site during the time of sampling.

Table 7. RPD comparison between primary sample and Blind Duplicate sample

| Analyte | LOR | Blind Duplicate Samples | | | |
|------------------|-----|-------------------------|--------------------|------|---------|
| | | ST-01-1482-TP1 | ST-01-1482-TP1-BR1 | RPD% | DQI met |
| Arsenic | 2 | 2.1 | <2 | NA | Yes |
| Cadmium | 0.4 | <0.4 | < 0.4 | NA | Yes |
| Chromium (total) | 5 | 17 | 14 | 6 | Yes |
| Copper | 5 | 20 | 19 | 4 | Yes |
| Lead | 5 | 14 | 10 | 7 | Yes |
| Mercury | 0.1 | <0.1 | <0.1 | NA | Yes |
| Nickel | 5 | 15 | 15 | 10 | Yes |
| Zinc | 5 | 44 | 40 | 20 | Yes |
| Benzene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Toluene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Ethylbenzene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Xylene | 0.3 | <0.1 | <0.3 | NA | Yes |
| Benzo(a)pyrene | 0.5 | <0.5 | <0.5 | NA | Yes |
| Total PAH | 0.5 | <0.5 | <0.5 | NA | Yes |
| TRH C6-C10 | 20 | <20 | <20 | NA | Yes |
| TRH C10-C16 | 50 | <50 | <50 | NA | Yes |
| TRH C16-C34 | 100 | <100 | <100 | NA | Yes |
| TRH C34-C40 | 100 | <100 | <100 | NA | Yes |

NA- Analyte concentrations below LOR and hence no RPD was calculated

11. CONCLUSIONS

Based on the site investigation described in this report, the following conclusions are made:

- Clayey silt with gravel was observed in the topsoil/reworked natural profile. The AEC is located on a slope inclining towards the north, the topsoil profile was observed between 0.0 m-0.3 m BGL in the northern sections and 0.0 m-0.7 m BGL along the southern sections;
- Absorption trenches were observed during test pit excavation at test pits TP3, TP7, and TP10. Rocks were encountered between 0.35m BGL (along the northern side) to 0.7m BGL (southern side) due to the sloping nature of the AEC from south to north;
- The concentration of analytes in the ten (10) primary soil samples collected and analysed was below the adopted site assessment criteria HIL-C (Public open spaces) for metals (Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury, and Zinc), Total Recoverable Hydrocarbons (TRH), Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (BTEXN), Organo Chlorine, and Organo Phosphate Pesticides (OCP/OPP and Asbestos);
- The concentration of Total Coliforms in soil samples analysed indicates the presence of microbes (faecal coliforms) in the soils located in the vicinity of the effluent trenches. Soil samples collected at TP4 and TP5 (sample IDs: ST-01-1482-TP4-MCR4 and ST-01-1482-TP4-MCR5) recorded concentrations > 24,000 MPN/g;
- The concentration of nutrients – Nitrite (NO_2), Nitrate (NO_3), and Ammonia (NH_3) were below the laboratory's LOR. However, Total Kjeldahl Nitrogen (TKN), and Phosphorus (P) exceeded the LOR in all the samples analysed;
- No asbestos was detected in any of the soil samples analysed by the laboratory;
- It is noted that the RPDs of the primary sample (ST-01-1482-TP1) and duplicate sample (ST-01-1482-TP1-BR1) collected were below the allowed criteria; and
- Quality Control assessments undertaken on the samples indicate that the samples and the field procedures met the relevant criteria adopted.

12. RECOMMENDATIONS

Based on the information provided in the above report K2 recommends the following:

Microbial contamination

- It is recommended that the soils excavated from the trench area are stockpiled separately in a controlled area and mixed well with chlorine (salt or solution). Care must be exercised to prevent leaching of any water from soils into the natural environment and divert surface runoff from extacavted soil material;
- Periodical turning and mixing of the soils with chlorine would enhance the degradation of faecal coliforms combined with Ultraviolet (UV) rays from the sunlight; and
- Upon completion of the chlorine treatment, the soils can then be applied to a suitable area within the site. As a conservative measure, the soils should not be applied to an area where there is a potential for direct human contact, agricultural activities in the near vicinity, or any potential surface runoff leading to a local waterbody.

It is recommended that the soils are tested for total coliforms before application to a land area within the site.

Total Nitrogen and Total Phosphorous contamination

- The concentration of total nitrogen and total phosphorous in soils can be reduced using the following method:
 - Plant uptakes by growing vegetation on the excavated soils – Following the treatment of soil for faecal coliforms and validation to meet acceptable criteria, growing plants on the soils could help reduce the elevated soil nutrient as it would be taken up by plant roots. The plants or fruits or vegetation used in this activity will be non-edible.

The concentration of the total nitrogen shall be brought to local background levels. Due to the higher altitude and the slopy nature of the ground at AEC and its surroundings, it is recommended that the pros and cons of each treatment method pertaining to the nature of the site is well understood before commencement.

13. UNEXPECTED FINDS PROCEDURE

Unexpected finds procedure provides a framework to manage any contamination encountered onsite during the site works. The degree of the unexpected finds procedure can vary based on the contamination nature and the risks involved. In general, if any contamination is encountered, the works shall cease immediately and an Environmental Consultant and/or an Occupational Hygienist shall be engaged to access the situation. For higher-risk situations, involving the risk of explosion and/or damage to underground services, the local authorities and emergency teams shall be contacted to manage the situation.

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

K2 Environmental Services Pty Ltd (K2) 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 or amended in any way without prior approval by the client or K2 and should not be relied upon by any other party, who should make their own independent inquiries. This report does not provide a complete assessment of the 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, K2 reserves the right to review the report in the context of the additional information. When interpreting reports from other parties, K2 assumes that works undertaken were of a high standard. K2 does not take responsibility for the works or quality of reports produced by other parties involved in the project at any time.

The report is reviewed and authorised by Dr. Dawit Bekele (Certified Site Contamination Specialist CEnvP-SC (ID. SC41149)). Dr. Dawit has provided an expert review of this report based on the information provided by K2. K2's professional opinions are based upon its professional judgment, experience, training, and results from analytical data (if applicable). In some cases, further testing and analysis may be required, thus producing different results and/or opinions. K2 has limited investigation to the scope agreed upon with its client. It should be noted only the subject area outlined in this report was inspected and adjacent areas may contain asbestos. K2 reserves the right to retract, review and amend this report if an omission, error, or further investigation is required that may affect the conclusions in the report.

Unless otherwise agreed in writing and signed by both parties, K2's total aggregate liability will not exceed the total consulting fees paid by the client in relation to this Proposal. K2 has used a degree of care and skill ordinarily exercised in similar investigations by a reputable member of the Environmental Industry within Australia. No other warranty, expressed or implied, is made or intended.

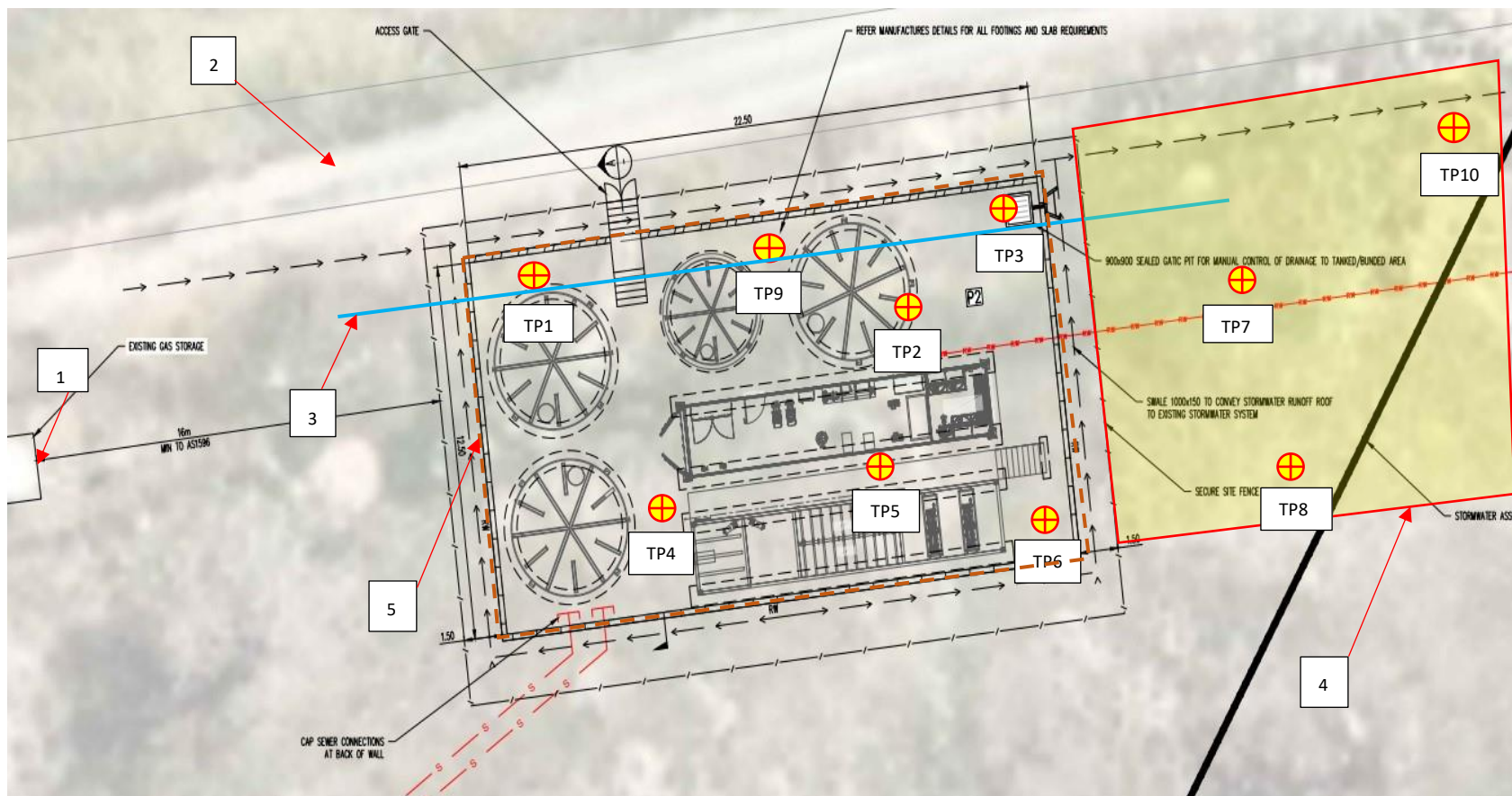
15. REFERENCES

- National Environment Protection Council (NEPC), (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999, NEPM, Canberra. Schedule B2: Guideline On-site Characterisation.*
- NSW EPA (1997). *Contaminated Land Management Act 1997.*
- NSW Environmental Protection Authority (2014). *Waste Classification Guidelines.*
- NSW Government (2016). *NSW Work Health and Safety Regulations.*
- NSW EPA (2020) *Contaminated Land Guidelines - Consultants Reporting on Contaminated Land.*
- Australian Standard 4482.1-2005: *Guide to the Investigation and Sampling of Potentially Contaminated Soil – Part 1: Non-volatile and semi-volatile compounds, Part 2: Volatile compounds*



Appendix I

Aerial Photographs



Site features

1. Gas storage tank
2. Access track
3. Trench location
4. Proposed truck turnaround area
5. Proposed STP footprint

Legend

Test pit location

Drafted by KK

Not to scale

Figure 5. Aerial representation of approximate test pit locations and site features (adapted from a drawing supplied)



Appendix II
Photographs



Photo.1. Representative photo of the soils onsite (Gravelly Clay Silt)

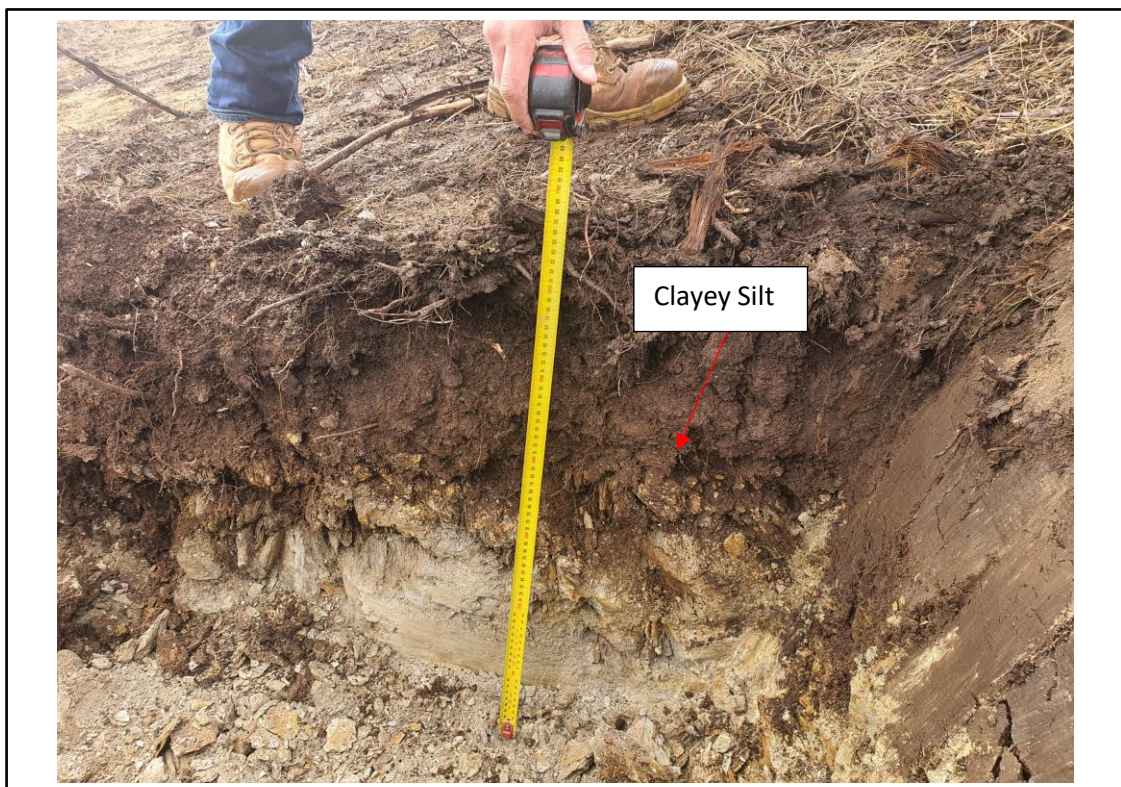


Photo.2. Representative photo of soil profile in the test pits at the subject area on site.



Photo.3. Representative photo of soils observed at test pit TP1.



Photo.4. Representative photo of materials observed at test pit TP3 where the sub-surface trench was observed.



Photo.5. Representative photo of soils and natural rock encountered at test pit TP4.



Photo.6. Representative photo of soil and gravel observed at test pit TP9.



Photo.7. Representative photo of materials observed at test pit TP3 where the sub-surface trench was observed.



Appendix III

Test Pit Logs



TEST PIT LOGS TP1

K2 CONSULTING GROUP

| | | |
|---|----------------------------------|---|
| PROJECT NUMBER ST-01-1482 | DRILLING DATE 10/05/2022 | COORDINATES 35°54'19"S 148°27'59"E |
| PROJECT NAME Environmental Site Investigation | DRILLING COMPANY | |
| CLIENT Selwyn Snow Resort Pty Ltd. | DRILLER | SURFACE ELEVATION 1556m AHD |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | DRILLING METHOD Excavator | LOGGED BY Kannan Kaliappan |
| | | CHECKED BY Kannan Kaliappan |

COMMENTS


| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|--|--------------|-------------|---|-------------------------|
| | ST-01-1482-TP1 ST-01-1482-TP1-BR1 ST-01-1482-TP1-ASB1 ST-01-1482-TP1-MCR1 | Y | | Gravelly clayey silt. Gravelly. Light to Dark brown. Loose. Moist | |
| 0.5 | | | | Termination Depth at:0.3m - Rock refusal | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP2

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'01"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|---|--|-------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP2 ST-01-1482-TP2-ASB2 ST-01-1482-TP2-MCR2 | Y |  | Gravelly clayey silt. Light to Dark brown. | |
| 0.5 | | | | Termination Depth at:0.3m - Rock refusal | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP3

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'01"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|---|-----------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP3 ST-01-1482-TP3-ASB3 ST-01-1482-TP3-MCR3 | Y | | Gravelly clayey silt. Dark brown. Moist | Trench observed at 0.3m BGL |
| 0.5 | | | | | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP4

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'00"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--|-------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.5 | ST-01-1482-TP4 ST-01-1482-TP4-ASB4 ST-01-1482-TP4-MCR4 | Y | | Organic clayey silt. Dark brown. Moist . | |
| | | | | Silty gravelly shale. Dry. Grey | |
| 1 | | | | Termination Depth at:0.7m - Rock refusal | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP5

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'00"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--|---|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.5 | ST-01-1482-TP5 ST-01-1482-TP5-ASB5 ST-01-1482-TP5-MCR5 | Y | | Organic clayey silt. Dark brown. Moist . | <div>Shale observed from 0.6m onwards</div> |
| | | | | Silty gravelly shale. Dry. Grey. | |
| 1 | | | | Termination Depth at:0.6m - Rock refusal | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP6

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'59"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--|-------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP6 ST-01-1482-TP6-ASB6 ST-01-1482-TP6-MCR6 | Y | | Topsoil. Brown. Moist. | |
| 0.5 | | | | Termination Depth at:0.4m - Rock refusal | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP7

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'00"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--------------------------------|-----------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP7 ST-01-1482-TP7-ASB7 ST-01-1482-TP7-MCR7 | Y | | Clayey Silt. Dark brown. Moist | Trench observed at 0.3m BGL |
| 0.5 | | | | Termination Depth at:0.3m | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP8

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'01"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--|----------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP8 ST-01-1482-TP8-ASB8 ST-01-1482-TP8-MCR8 | Y | | Clayey Silt. Dark brown. Moist. Loose. | Shale observed at 0.4m BGL |
| 0.5 | | | | Termination Depth at:0.4m - Rock refusal | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP9

K2 CONSULTING GROUP

| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'00"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|--|--------------|-------------|--|--------------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP9 ST-01-1482-TP9-ASB9 ST-01-1482-TP9-MCR9 | Y | | Clayey Silt. Gravelly. Dark brown. Moist. Loose. | Sandstone observed at 0.2m BGL |
| 0.5 | | | | Termination Depth at:0.2m - Rock refusal | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



TEST PIT LOGS TP10

K2 CONSULTING GROUP


| | | | | | |
|---|--|---------------------------------|--|---|--|
| PROJECT NUMBER ST-01-1482 | | DIGGING DATE 10/05/2022 | | COORDINATES 35°54'19"S 148°27'01"E | |
| PROJECT NAME Environmental Site Investigation | | DIGGING COMPANY | | SURFACE ELEVATION 1556m AHD | |
| CLIENT Selwyn Snow Resort Pty Ltd. | | DIGGER | | LOGGED BY Kannan Kaliappan | |
| ADDRESS 213A Kings Cross Road, Cabramurra NSW 2629 | | DIGGING METHOD Excavator | | CHECKED BY Kannan Kaliappan | |

| COMMENTS | | | | | |
|-----------|---|--------------|-------------|---|-----------------------------|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1482-TP10 ST-01-1482-TP10-ASB10 ST-01-1482-TP10-MCR10 | Y | | Gravelly clayey Silt. Gravelly. Dark brown. Moist. Loose. | Trench observed at 0.3m BGL |
| 0.5 | | | | Termination Depth at:0.3m | |
| 1 | | | | | |
| 1.5 | | | | | |
| 2 | | | | | |
| 2.5 | | | | | |
| 3 | | | | | |
| 3.5 | | | | | |
| 4 | | | | | |
| 4.5 | | | | | |
| 5 | | | | | |
| 5.5 | | | | | |



Appendix IV


Laboratory Results - Summary

| | | | Metals and Metalloids | | | | | | | | TRH | | | | | | B | |
|---|--------|-------------|-----------------------|---------|----------------|--------|-------|---------------------|--------|--------|-------------|-------------|---------------------|--------------------------------|---------------|---------------|---------|---------|
|  | | | Arsenic | Cadmium | Total Chromium | Copper | Lead | Mercury (inorganic) | Nickel | Zinc | TRH C6 - C9 | TRH C10-C14 | F1 ((C6-C10)- BTEX) | F2 (>C10-C16 less Naphthalene) | F3 (>C16-C34) | F4 (>C34-C40) | Benzene | Toluene |
| Sample ID | Depth | PQL | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 20 | 20 | 20 | 50 | 100 | 100 | 0.1 | 0.1 |
| | | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| HIL C (Recreational) | | | 300 | 100 | 240 | 20,000 | 600 | 400 | 800 | 30,000 | - | - | - | - | - | - | | |
| HSL C (Public open spaces) | 1m-<2m | Clay | | | | | | | | | | | | | | | NL | NL |
| ESL (Urban residential and public space) | | Clay | | | | | | | | | | | 180 | 120 | 1300 | 5600 | 65.0 | 105 |
| EIL(Public open spaces) | | | 100 | | 410 | 160 | 1,100 | | 90 | 400 | | | | | | | | |
| Management Limit | | | | | | | | | | | - | - | 800 | 1000 | 3,500 | 10,000 | | |
| ST-01-1482-TP1 | 0.3 m | 10.05.2022 | 2.1 | <0.4 | 17 | 20 | 14 | <0.1 | 15 | 44 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP2 | 0.3 m | 10.05.2022 | <2 | <0.4 | 13 | 24 | 12 | <0.1 | 13 | 36 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP3 | 0.3 m | 10.05.2022 | <2 | <0.4 | 14 | 17 | 12 | <0.1 | 19 | 51 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP4 | 0.35 m | 10.05.2022 | 4.6 | <0.4 | 12 | 13 | 11 | <0.1 | 20 | 59 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP5 | 0.35 m | 10.05.2022 | <2 | <0.4 | 12 | 12 | 10 | <0.1 | 11 | 33 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP6 | 0.4 m | 10.05.2022 | <2 | <0.4 | 17 | 25 | 19 | <0.1 | 16 | 45 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP7 | 0.3 m | 10.05.2022 | <2 | <0.4 | 20 | 24 | 15 | <0.1 | 16 | 45 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP8 | 0.4 m | 10.05.2022 | <2 | <0.4 | 22 | 18 | 13 | <0.1 | 16 | 42 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP9 | 0.2 m | 10.05.2022 | <2 | <0.4 | 10 | 16 | 8.7 | <0.1 | 13 | 43 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| ST-01-1482-TP10 | 0.3 m | 10.05.2022 | 3.6 | <0.4 | 16 | 24 | 14 | <0.1 | 19 | 45 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| ST-01-1482-TP1-BR1 | 0.3m | 10.05.2022 | <2 | <0.4 | 14 | 19 | 10 | <0.1 | 15 | 40 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 |
| | | | | | | | | | | | | | | | | | | |
| RPD1 (Duplicate) | | | 0 | 0 | 6 | 4 | 7 | 0 | 10 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |


Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Measure - Schedule B1 and B2

| .TEX | | | | PAH | | | | | | | | | | | | | | |
|--|--------|-------------|--------------|---------------|--------------|----------------|------------|-------------------|----------------|------------------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|
|  | | | Ethylbenzene | Total Xylenes | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a)pyrene | Benzo(b,j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| | | PQL | 0.1 | 0.3 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Sample ID | Depth | Sample Date | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| HIL C (Recreational) | | | | | | | | | | | | | | 300 | | | | |
| HSL C (Public open spaces) | 1m-<2m | Clay | NL | NL | | | | | | | | | | | | | | |
| ESL (Urban residential and public space) | | Clay | 125 | 45 | | | | | 1.4 | | | | | | | | | |
| EIL(Public open spaces) | | | | | 170 | 0.7 | | | | | | | | | | | | 170 |
| Management Limit | | | | | | | | | | | | | | | | | | |
| ST-01-1482-TP1 | 0.3 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP2 | 0.3 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP3 | 0.3 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP4 | 0.35 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP5 | 0.35 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP6 | 0.4 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP7 | 0.3 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP8 | 0.4 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP9 | 0.2 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1482-TP10 | 0.3 m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| ST-01-1482-TP1-BR1 | 0.3m | 10.05.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | | | | | | | | | | | | | |
| RPD1 (Duplicate) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | |


Notes:
NAD- No Asbestos Detected
Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Measure

| <div> K2 CONSULTING GROUP</div> | | | | | | | OCP | | | | | | | | OPP | | |
|--|--------|--------------------|---------------|---------------|---------------|--------------------------------|---------------|-------------------|-----------------|------------------|---------------|---------------|-------------------|---------------|---------------|----------------|----------------------------|
| | | | Phenanthrene | Pyrene | PAH (Total) | Carcinogenic PAHs as B(a)P TEQ | DDT+DDE+DDD | Aldrin & Dieldrin | Total Chlordane | Total Endosulfan | Endrin | Heptachlor | Hexachlorobenzene | Methoxychlor | Chlorpyrifos | Total Nitrogen | Nitrite (NO ₂) |
| Sample ID | Depth | PQL Sample Date | 0.50 mg/kg | 0.50 mg/kg | 0.50 mg/kg | 0.50 mg/kg | 0.05 mg/kg | 0.05 mg/kg | 0.10 mg/kg | 0.05 mg/kg | 0.05 mg/kg | 0.05 mg/kg | 0.05 mg/kg | 0.05 mg/kg | 0.20 mg/kg | 10.00 mg/kg | 5.00 mg/kg |
| HIL C (Recreational) | | | | | 400 | 4 | 400 | 9 | 80 | 400 | 20 | 9 | 15 | 500 | 300 | | |
| HSL C (Public open spaces) | 1m-<2m | Clay | | | | | | | | | | | | | | | |
| ESL (Urban residential and public space) | | Clay | | | | | | | | | | | | | | | |
| EIL(Public open spaces) | | | | | | | 180 | | | | | | | | | | |
| Management Limit | | | | | | | | | | | | | | | | | |
| ST-01-1482-TP1 | 0.3 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 530 | <5 |
| ST-01-1482-TP2 | 0.3 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 1800 | <5 |
| ST-01-1482-TP3 | 0.3 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 1200 | <5 |
| ST-01-1482-TP4 | 0.35 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 40 | <5 |
| ST-01-1482-TP5 | 0.35 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 350 | <5 |
| ST-01-1482-TP6 | 0.4 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 1100 | <5 |
| ST-01-1482-TP7 | 0.3 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 730 | <5 |
| ST-01-1482-TP8 | 0.4 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 920 | <5 |
| ST-01-1482-TP9 | 0.2 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 1900 | <5 |
| ST-01-1482-TP10 | 0.3 m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 900 | <5 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| ST-01-1482-TP1-BR1 | 0.3m | 10.05.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | |
| | | | | | | | | | | | | | | | | | |
| RPD1 (Duplicate) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | | | | | |

Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Measure

| | | | Nutrients | | | | | Asbestos |
|--|--------|--------------------|----------------------------|-------------------------------|----------------------------|----------------|--------------------------|-----------------|
|  | | | Nitrate (NO ₃) | Total Kjeldahl Nitrogen (TKN) | Ammonia (NH ₃) | Phosphorus (P) | Total Coliforms (Faecal) | Asbestos (50 g) |
| Sample ID | Depth | PQL Sample Date | 5.00 mg/kg | 10.00 mg/kg | 5.00 mg/kg | 5.00 mg/kg | MPN/g | N |
| HIL C (Recreational) | | | | | | | | |
| HSL C (Public open spaces) | 1m-<2m | Clay | | | | | | |
| ESL (Urban residential and public space) | | Clay | | | | | | |
| EIL(Public open spaces) | | | | | | | | |
| Management Limit | | | | | | | | |
| ST-01-1482-TP1 | 0.3 m | 10.05.2022 | <5 | 530 | <5 | 460 | 1100 | - |
| ST-01-1482-TP2 | 0.3 m | 10.05.2022 | <5 | 1800 | <5 | 360 | 63 | - |
| ST-01-1482-TP3 | 0.3 m | 10.05.2022 | <5 | 1200 | <5 | 300 | 120 | - |
| ST-01-1482-TP4 | 0.35 m | 10.05.2022 | <5 | 40 | <5 | 440 | >2400 | - |
| ST-01-1482-TP5 | 0.35 m | 10.05.2022 | <5 | 350 | <5 | 280 | >2400 | - |
| ST-01-1482-TP6 | 0.4 m | 10.05.2022 | <5 | 1100 | <5 | 380 | 790 | - |
| ST-01-1482-TP7 | 0.3 m | 10.05.2022 | <5 | 730 | <5 | 390 | 420 | - |
| ST-01-1482-TP8 | 0.4 m | 10.05.2022 | <5 | 920 | <5 | 350 | 230 | - |
| ST-01-1482-TP9 | 0.2 m | 10.05.2022 | <5 | 1900 | <5 | 350 | 1200 | - |
| ST-01-1482-TP10 | 0.3 m | 10.05.2022 | <5 | 900 | <5 | 270 | 4400 | - |
| | | | | | | | | |
| | | | | | | | | |
| ST-01-1482-TP1-BR1 | 0.3m | 10.05.2022 | | | | | | |
| | | | | | | | | |
| RPD1 (Duplicate) | | | | | | | | |
| | | | | | | | | |

Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Measure



Appendix V

Laboratory Reports

K2 Enviro Solutions
Suite 1A, Level 2, 802 Pacific Highway
Gordon
NSW 2768



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: **Kannan Kaliappan**

Report **887680-S**
Project name **SELWYN SNOW RESORT PTY LTD**
Project ID **ST-01-1482**
Received Date **May 11, 2022**

| Client Sample ID | | | ST-01-1482-TP1 | ST-01-1482-TP2 | ST-01-1482-TP3 | ST-01-1482-TP4 |
|---|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027224 | S22-My0027225 | S22-My0027226 | S22-My0027227 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 68 | 62 | 54 | 52 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |

| Client Sample ID | | | ST-01-1482-TP1 | ST-01-1482-TP2 | ST-01-1482-TP3 | ST-01-1482-TP4 |
|---|------|-------|----------------|----------------|----------------|----------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027224 | S22-My0027225 | S22-My0027226 | S22-My0027227 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 98 | 92 | 91 | 95 |
| p-Terphenyl-d14 (surr.) | 1 | % | 108 | 103 | 102 | 105 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 112 | 102 | 105 | 108 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 106 | 102 | 102 | 105 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | ST-01-1482-TP1 | ST-01-1482-TP2 | ST-01-1482-TP3 | ST-01-1482-TP4 |
|------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027224 | S22-My0027225 | S22-My0027226 | S22-My0027227 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 108 | 106 | 104 | 106 |
| | | | | | | |
| Ammonia (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrate & Nitrite (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrate (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrite (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Total Kjeldahl Nitrogen (as N) | 10 | mg/kg | 530 | 1800 | 1200 | 40 |
| Total Nitrogen (as N)* | 10 | mg/kg | 530 | 1800 | 1200 | 40 |
| % Moisture | 1 | % | 28 | 22 | 23 | 12 |
| Heavy Metals | | | | | | |
| Phosphorus | 10 | mg/kg | 460 | 360 | 300 | 440 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 2.1 | < 2 | < 2 | 4.6 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 17 | 13 | 14 | 12 |
| Copper | 5 | mg/kg | 20 | 24 | 17 | 13 |
| Lead | 5 | mg/kg | 14 | 12 | 12 | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 15 | 13 | 19 | 20 |
| Zinc | 5 | mg/kg | 44 | 36 | 51 | 59 |

| Client Sample ID | | | ST-01-1482-TP5 | ST-01-1482-TP6 | ST-01-1482-TP7 | ST-01-1482-TP8 |
|---|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027228 | S22-My0027229 | S22-My0027230 | S22-My0027231 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 50 | 56 | 50 | 51 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1,2,3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 86 | 96 | 95 | 96 |
| p-Terphenyl-d14 (surr.) | 1 | % | 96 | 112 | 105 | 111 |

| Client Sample ID | | | ST-01-1482-TP5 | ST-01-1482-TP6 | ST-01-1482-TP7 | ST-01-1482-TP8 |
|-------------------------------------|------|-------|----------------|----------------|----------------|----------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027228 | S22-My0027229 | S22-My0027230 | S22-My0027231 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4,4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4,4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4,4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 95 | 105 | 109 | 114 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 95 | 107 | 104 | 108 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| | | | | | | |
|------------------------------------|-----|-------|-----------------------|-----------------------|-----------------------|-----------------------|
| Client Sample ID | | | ST-01-1482-TP5 | ST-01-1482-TP6 | ST-01-1482-TP7 | ST-01-1482-TP8 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027228 | S22-My0027229 | S22-My0027230 | S22-My0027231 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 98 | 110 | 109 | 116 |
| | | | | | | |
| Ammonia (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrate & Nitrite (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrate (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nitrite (as N) | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Total Kjeldahl Nitrogen (as N) | 10 | mg/kg | 350 | 1100 | 730 | 920 |
| Total Nitrogen (as N)* | 10 | mg/kg | 350 | 1100 | 730 | 920 |
| % Moisture | 1 | % | 28 | 26 | 25 | 34 |
| Heavy Metals | | | | | | |
| Phosphorus | 10 | mg/kg | 280 | 380 | 390 | 350 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 12 | 17 | 20 | 22 |
| Copper | 5 | mg/kg | 12 | 25 | 24 | 18 |
| Lead | 5 | mg/kg | 10 | 19 | 15 | 13 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 11 | 16 | 16 | 16 |
| Zinc | 5 | mg/kg | 33 | 45 | 45 | 42 |

| | | | | |
|---------------------------------------|-----|-------|-----------------------|------------------------|
| Client Sample ID | | | ST-01-1482-TP9 | ST-01-1482-TP10 |
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027232 | S22-My0027233 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | |
| Total Recoverable Hydrocarbons | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 |

| | | | | |
|---|------|-------|-----------------------|------------------------|
| Client Sample ID | | | ST-01-1482-TP9 | ST-01-1482-TP10 |
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027232 | S22-My0027233 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | |
| Total Recoverable Hydrocarbons | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 |
| BTEX | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 51 | 53 |
| Polycyclic Aromatic Hydrocarbons | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Indeno(1,2,3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 94 | 94 |
| p-Terphenyl-d14 (surr.) | 1 | % | 107 | 110 |
| Organochlorine Pesticides | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 4,4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4,4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4,4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |

| | | | | |
|-------------------------------------|------|-------|-----------------------|------------------------|
| Client Sample ID | | | ST-01-1482-TP9 | ST-01-1482-TP10 |
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027232 | S22-My0027233 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | |
| Organochlorine Pesticides | | | | |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 107 | 109 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 103 | 105 |
| Organophosphorus Pesticides | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |

| | | | | |
|------------------------------------|-----|-------|-----------------------|------------------------|
| Client Sample ID | | | ST-01-1482-TP9 | ST-01-1482-TP10 |
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22-My0027232 | S22-My0027233 |
| Date Sampled | | | May 10, 2022 | May 10, 2022 |
| Test/Reference | LOR | Unit | | |
| Organophosphorus Pesticides | | | | |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 108 | 113 |
| | | | | |
| Ammonia (as N) | 5 | mg/kg | < 5 | < 5 |
| Nitrate & Nitrite (as N) | 5 | mg/kg | < 5 | < 5 |
| Nitrate (as N) | 5 | mg/kg | < 5 | < 5 |
| Nitrite (as N) | 5 | mg/kg | < 5 | < 5 |
| Total Kjeldahl Nitrogen (as N) | 10 | mg/kg | 1900 | 900 |
| Total Nitrogen (as N)* | 10 | mg/kg | 1900 | 900 |
| % Moisture | 1 | % | 26 | 24 |
| Heavy Metals | | | | |
| Phosphorus | 10 | mg/kg | 350 | 270 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | < 2 | 3.6 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 10 | 16 |
| Copper | 5 | mg/kg | 16 | 24 |
| Lead | 5 | mg/kg | 8.7 | 14 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 13 | 19 |
| Zinc | 5 | mg/kg | 43 | 45 |

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 | May 12, 2022 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | May 12, 2022 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | May 12, 2022 | 14 Days |
| BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH | Sydney | May 12, 2022 | 14 Days |
| Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Sydney | May 12, 2022 | 14 Days |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Sydney | May 12, 2022 | 14 Days |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Sydney | May 12, 2022 | 14 Days |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Sydney | May 12, 2022 | 28 Days |
| Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P | | | |
| Ammonia (as N) - Method: LTM-INO-4200 Ammonia by Discrete Analyser | Sydney | May 12, 2022 | 28 Days |
| Nitrate & Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA | Melbourne | May 13, 2022 | 28 Days |
| Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA | Melbourne | May 13, 2022 | 28 Days |
| Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA | Melbourne | May 13, 2022 | 28 Days |
| Total Kjeldahl Nitrogen (as N) - Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA | Melbourne | May 13, 2022 | 28 Days |
| Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Sydney | May 12, 2022 | 28 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Sydney | May 11, 2022 | 14 Days |

| | | | | | |
|----------------------|--|-------------------|--------------|----------------------|----------------------|
| Company Name: | K2 Enviro Solutions | Order No.: | | Received: | May 11, 2022 5:14 PM |
| Address: | Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768 | Report #: | 887680 | Due: | May 13, 2022 |
| Project Name: | SALWYN SNOW RESORT PTY LTD | Phone: | 0449 669 559 | Priority: | 2 Day |
| Project ID: | ST-01-1482 | Fax: | | Contact Name: | Kannan Kaliappan |

Eurofins Analytical Services Manager : Ursula Long

| Sample Detail | | | | | | Moisture Set | Eurofins Suite B10 | Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P |
|--|----------------|--------------|---------------|--------|---------------|--------------|--------------------|---|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | | X |
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | 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 | ST-01-1482-TP1 | May 10, 2022 | 9:00AM | Soil | S22-My0027224 | X | X | X |
| 2 | ST-01-1482-TP2 | May 10, 2022 | 9:00AM | Soil | S22-My0027225 | X | X | X |
| 3 | ST-01-1482-TP3 | May 10, 2022 | 9:00AM | Soil | S22-My0027226 | X | X | X |
| 4 | ST-01-1482-TP4 | May 10, 2022 | 9:00AM | Soil | S22-My0027227 | X | X | X |
| 5 | ST-01-1482-TP5 | May 10, 2022 | 9:00AM | Soil | S22-My0027228 | X | X | X |
| 6 | ST-01-1482- | May 10, 2022 | 9:00AM | Soil | S22- | X | X | X |

| | | | | | |
|----------------------|--|-------------------|--------------|----------------------|----------------------|
| Company Name: | K2 Enviro Solutions | Order No.: | | Received: | May 11, 2022 5:14 PM |
| Address: | Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768 | Report #: | 887680 | Due: | May 13, 2022 |
| Project Name: | SALWYN SNOW RESORT PTY LTD | Phone: | 0449 669 559 | Priority: | 2 Day |
| Project ID: | ST-01-1482 | Fax: | | Contact Name: | Kannan Kaliappan |

Eurofins Analytical Services Manager : Ursula Long

| Sample Detail | | | | | | Moisture Set | Eurofins Suite B10 | Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P |
|--|-----------------|--------------|--------|------|---------------|--------------|--------------------|---|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | | X |
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | X | X | X |
| Brisbane Laboratory - NATA # 1261 Site # 20794 | | | | | | | | |
| Mayfield Laboratory - NATA # 1261 Site # 25079 | | | | | | | | |
| Perth Laboratory - NATA # 2377 Site # 2370 | | | | | | | | |
| External Laboratory | | | | | | | | |
| | TP6 | | | | My0027229 | | | |
| 7 | ST-01-1482-TP7 | May 10, 2022 | 9:00AM | Soil | S22-My0027230 | X | X | X |
| 8 | ST-01-1482-TP8 | May 10, 2022 | 9:00AM | Soil | S22-My0027231 | X | X | X |
| 9 | ST-01-1482-TP9 | May 10, 2022 | 9:00AM | Soil | S22-My0027232 | X | X | X |
| 10 | ST-01-1482-TP10 | May 10, 2022 | 9:00AM | Soil | S22-My0027233 | X | X | X |
| Test Counts | | | | | | 10 | 10 | 10 |

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 | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 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/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| Method Blank | | | | | | | |
| BTEX | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| Method Blank | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g,h,i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a,h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Total PAH* | mg/kg | < 0.5 | | | 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 | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Ammonia (as N) | mg/kg | < 5 | | | 5 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Phosphorus | mg/kg | < 10 | | | 10 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| LCS - % Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | | | | | | | |
| TRH C6-C9 | % | 86 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 100 | | | 70-130 | Pass | |
| Naphthalene | % | 107 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 86 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 104 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| BTEX | | | | | | | |
| Benzene | % | 98 | | | 70-130 | Pass | |
| Toluene | % | 100 | | | 70-130 | Pass | |
| Ethylbenzene | % | 98 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 105 | | | 70-130 | Pass | |
| o-Xylene | % | 108 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 106 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | % | 111 | | | 70-130 | Pass | |
| Acenaphthylene | % | 116 | | | 70-130 | Pass | |
| Anthracene | % | 113 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 116 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 118 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 116 | | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | % | 101 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 114 | | | 70-130 | Pass | |
| Chrysene | % | 102 | | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | % | 104 | | | 70-130 | Pass | |
| Fluoranthene | % | 110 | | | 70-130 | Pass | |
| Fluorene | % | 114 | | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | % | 106 | | | 70-130 | Pass | |
| Naphthalene | % | 104 | | | 70-130 | Pass | |
| Phenanthrene | % | 121 | | | 70-130 | Pass | |
| Pyrene | % | 110 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 93 | | | 70-130 | Pass | |
| 4,4'-DDD | % | 105 | | | 70-130 | Pass | |
| 4,4'-DDE | % | 98 | | | 70-130 | Pass | |
| 4,4'-DDT | % | 101 | | | 70-130 | Pass | |
| a-HCH | % | 95 | | | 70-130 | Pass | |
| Aldrin | % | 96 | | | 70-130 | Pass | |
| b-HCH | % | 95 | | | 70-130 | Pass | |
| d-HCH | % | 97 | | | 70-130 | Pass | |
| Dieldrin | % | 95 | | | 70-130 | Pass | |
| Endosulfan I | % | 91 | | | 70-130 | Pass | |
| Endosulfan II | % | 95 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 89 | | | 70-130 | Pass | |
| Endrin | % | 105 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| Endrin aldehyde | | | % | 128 | | | 70-130 | Pass | |
| Endrin ketone | | | % | 88 | | | 70-130 | Pass | |
| g-HCH (Lindane) | | | % | 104 | | | 70-130 | Pass | |
| Heptachlor | | | % | 120 | | | 70-130 | Pass | |
| Heptachlor epoxide | | | % | 99 | | | 70-130 | Pass | |
| Hexachlorobenzene | | | % | 99 | | | 70-130 | Pass | |
| Methoxychlor | | | % | 79 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Organophosphorus Pesticides | | | | | | | | | |
| Diazinon | | | % | 130 | | | 70-130 | Pass | |
| Dimethoate | | | % | 106 | | | 70-130 | Pass | |
| Ethion | | | % | 119 | | | 70-130 | Pass | |
| Fenitrothion | | | % | 125 | | | 70-130 | Pass | |
| Methyl parathion | | | % | 117 | | | 70-130 | Pass | |
| Mevinphos | | | % | 124 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Ammonia (as N) | | | % | 102 | | | 70-130 | Pass | |
| Total Kjeldahl Nitrogen (as N) | | | % | 80 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Phosphorus | | | % | 88 | | | 80-120 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Arsenic | | | % | 88 | | | 80-120 | Pass | |
| Cadmium | | | % | 96 | | | 80-120 | Pass | |
| Chromium | | | % | 93 | | | 80-120 | Pass | |
| Copper | | | % | 94 | | | 80-120 | Pass | |
| Lead | | | % | 99 | | | 80-120 | Pass | |
| Mercury | | | % | 102 | | | 80-120 | Pass | |
| Nickel | | | % | 90 | | | 80-120 | Pass | |
| Zinc | | | % | 88 | | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons | | | | Result 1 | | | | | |
| TRH C10-C14 | S22-My0011033 | NCP | % | 73 | | | 70-130 | Pass | |
| TRH >C10-C16 | S22-My0011033 | NCP | % | 76 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | | | |
| Acenaphthene | S22-My0013782 | NCP | % | 99 | | | 70-130 | Pass | |
| Acenaphthylene | S22-My0013782 | NCP | % | 106 | | | 70-130 | Pass | |
| Anthracene | S22-My0013782 | NCP | % | 96 | | | 70-130 | Pass | |
| Benz(a)anthracene | S22-My0013782 | NCP | % | 112 | | | 70-130 | Pass | |
| Benzo(a)pyrene | S22-My0013782 | NCP | % | 113 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S22-My0013782 | NCP | % | 114 | | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | S22-My0013782 | NCP | % | 99 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S22-My0013782 | NCP | % | 104 | | | 70-130 | Pass | |
| Chrysene | S22-My0013782 | NCP | % | 100 | | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | S22-My0013782 | NCP | % | 98 | | | 70-130 | Pass | |
| Fluoranthene | S22-My0013782 | NCP | % | 116 | | | 70-130 | Pass | |
| Fluorene | S22-My0013782 | NCP | % | 102 | | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | S22-My0013782 | NCP | % | 100 | | | 70-130 | Pass | |
| Naphthalene | S22-My0013782 | NCP | % | 99 | | | 70-130 | Pass | |
| Phenanthrene | S22-My0013782 | NCP | % | 112 | | | 70-130 | Pass | |
| Pvrene | S22-Mv0013782 | NCP | % | 120 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------|---------------|-----------|-------|----------|--|-------------------|-------------|-----------------|
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Chlordanes - Total | S22-My0013782 | NCP | % | 94 | | 70-130 | Pass | |
| 4,4'-DDD | S22-My0013782 | NCP | % | 100 | | 70-130 | Pass | |
| 4,4'-DDE | S22-My0013782 | NCP | % | 95 | | 70-130 | Pass | |
| 4,4'-DDT | S22-My0013782 | NCP | % | 99 | | 70-130 | Pass | |
| a-HCH | S22-My0013782 | NCP | % | 92 | | 70-130 | Pass | |
| Aldrin | S22-My0013782 | NCP | % | 91 | | 70-130 | Pass | |
| b-HCH | S22-My0013782 | NCP | % | 99 | | 70-130 | Pass | |
| d-HCH | S22-My0013782 | NCP | % | 95 | | 70-130 | Pass | |
| Dieldrin | S22-My0013782 | NCP | % | 96 | | 70-130 | Pass | |
| Endosulfan I | S22-My0013782 | NCP | % | 97 | | 70-130 | Pass | |
| Endosulfan II | S22-My0013782 | NCP | % | 102 | | 70-130 | Pass | |
| Endosulfan sulphate | S22-My0013782 | NCP | % | 90 | | 70-130 | Pass | |
| Endrin | S22-My0013782 | NCP | % | 121 | | 70-130 | Pass | |
| Endrin aldehyde | S22-My0009650 | NCP | % | 122 | | 70-130 | Pass | |
| Endrin ketone | S22-My0013782 | NCP | % | 90 | | 70-130 | Pass | |
| g-HCH (Lindane) | S22-My0013782 | NCP | % | 91 | | 70-130 | Pass | |
| Heptachlor | S22-My0013782 | NCP | % | 117 | | 70-130 | Pass | |
| Heptachlor epoxide | S22-My0013782 | NCP | % | 99 | | 70-130 | Pass | |
| Hexachlorobenzene | S22-My0013782 | NCP | % | 97 | | 70-130 | Pass | |
| Methoxychlor | S22-My0013782 | NCP | % | 81 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | |
| Diazinon | S22-My0013782 | NCP | % | 117 | | 70-130 | Pass | |
| Dimethoate | S22-My0013782 | NCP | % | 113 | | 70-130 | Pass | |
| Ethion | S22-My0013782 | NCP | % | 117 | | 70-130 | Pass | |
| Fenitrothion | S22-My0013782 | NCP | % | 127 | | 70-130 | Pass | |
| Mevinphos | S22-My0013782 | NCP | % | 115 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Total Recoverable Hydrocarbons | | | | Result 1 | | | | |
| TRH C6-C9 | S22-My0027225 | CP | % | 89 | | 70-130 | Pass | |
| Naphthalene | S22-My0027225 | CP | % | 85 | | 70-130 | Pass | |
| TRH C6-C10 | S22-My0027225 | CP | % | 91 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| BTEX | | | | Result 1 | | | | |
| Benzene | S22-My0027225 | CP | % | 91 | | 70-130 | Pass | |
| Toluene | S22-My0027225 | CP | % | 95 | | 70-130 | Pass | |
| Ethylbenzene | S22-My0027225 | CP | % | 98 | | 70-130 | Pass | |
| m&p-Xylenes | S22-My0027225 | CP | % | 96 | | 70-130 | Pass | |
| o-Xylene | S22-My0027225 | CP | % | 99 | | 70-130 | Pass | |
| Xylenes - Total* | S22-My0027225 | CP | % | 97 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| | | | | Result 1 | | | | |
| Ammonia (as N) | S22-My0027225 | CP | % | 100 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | |
| Phosphorus | S22-My0027225 | CP | % | 125 | | 75-125 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | |
| Arsenic | S22-My0027225 | CP | % | 90 | | 75-125 | Pass | |
| Cadmium | S22-My0027225 | CP | % | 96 | | 75-125 | Pass | |
| Chromium | S22-My0027225 | CP | % | 93 | | 75-125 | Pass | |
| Copper | S22-My0027225 | CP | % | 94 | | 75-125 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Lead | S22-My0027225 | CP | % | 103 | | | 75-125 | Pass | |
| Mercury | S22-My0027225 | CP | % | 105 | | | 75-125 | Pass | |
| Nickel | S22-My0027225 | CP | % | 91 | | | 75-125 | Pass | |
| Zinc | S22-My0027225 | CP | % | 91 | | | 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 | S22-My0027224 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | S22-My0027224 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | S22-My0027224 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | S22-My0027224 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| Naphthalene | S22-My0027224 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-My0027224 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH >C10-C16 | S22-My0027224 | CP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | S22-My0027224 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | S22-My0027224 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| BTEX | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-My0027224 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-My0027224 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-My0027224 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-My0027224 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-My0027224 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-My0027224 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g,h,i)perylene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a,h)anthracene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1,2,3-cd)pyrene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-My0020751 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4,4'-DDD | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4,4'-DDE | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4,4'-DDT | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|-----------------------------|---------------|-----|-------|----------|----------|-----|-----|------|
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Endosulfan II | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan sulphate | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin aldehyde | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin ketone | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| g-HCH (Lindane) | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor epoxide | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Hexachlorobenzene | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Methoxychlor | S22-My0020751 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Toxaphene | S22-My0020751 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Azinphos-methyl | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Bolstar | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorfenvinphos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos-methyl | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Coumaphos | S22-My0004596 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Demeton-S | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Demeton-O | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Diazinon | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dichlorvos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dimethoate | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Disulfoton | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| EPN | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethoprop | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethyl parathion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenitrothion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fensulfthion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenthion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Malathion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Merphos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methyl parathion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Mevinphos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Monocrotophos | S22-My0004596 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Naled | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Omethoate | S22-My0004596 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phorate | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pirimiphos-methyl | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pyrazophos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ronnel | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | S22-My0004596 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | |
| Ammonia (as N) | S22-My0027224 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| % Moisture | S22-My0027224 | CP | % | 28 | 29 | 4.0 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Phosphorus | S22-My0027224 | CP | mg/kg | 460 | 400 | 13 | 30% | Pass |

| Duplicate | | | | | | | | |
|--------------|---------------|----|-------|----------|----------|-----|-----|------|
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S22-My0027224 | CP | mg/kg | 2.1 | < 2 | 21 | 30% | Pass |
| Cadmium | S22-My0027224 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S22-My0027224 | CP | mg/kg | 17 | 15 | 13 | 30% | Pass |
| Copper | S22-My0027224 | CP | mg/kg | 20 | 17 | 12 | 30% | Pass |
| Lead | S22-My0027224 | CP | mg/kg | 14 | 11 | 22 | 30% | Pass |
| Mercury | S22-My0027224 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S22-My0027224 | CP | mg/kg | 15 | 14 | 8.0 | 30% | Pass |
| Zinc | S22-My0027224 | CP | mg/kg | 44 | 40 | 8.0 | 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 |

Authorised by:

| | |
|--------------------|-----------------------------|
| Ursula Long | Analytical Services Manager |
| Dilani Samarakoon | Senior Analyst-Inorganic |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |
| Scott Beddoes | Senior Analyst-Inorganic |



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 085 521

☒ Sydney Laboratory

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02 9900 8400 EnviroSampleNSW@eurofins.com

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☐ Melbourne Laboratory

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03 8564 5000 EnviroSampleVic@eurofins.com

| | | | | | | | | | | | | | | | | | | | |
|---------------------|--|---------------------------------------|----------------------------------|--------------|--|-----------|--|--|---|-------------------|------|---------|--|--|------------------|---|-------------------|---|---------------|
| Company | K2 CONSULTING GROUP | | | Project No | ST-01-1482 | | | | Project Manager | KANNAN KALIAPPAN | | | | Sampler(s) | KANNAN KALIAPPAN | | | | |
| Address | SUITE 222 LEVEL 2, 20B LEXINGTON DRIVE, BELLA VISTA NSW 2153 | | | Project Name | Selwyn Snow Resort Pty Ltd | | | | EDD Format | ES.dat, EQUIS etc | | | | Handed over by | | | | | |
| | | | | As.Cd | TRH, BTEXN, PAH, OCP, OPP, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) | | | | Nutrients (Total N, TKN, NOX, NO2, NO3, NH3, Total P) | | | | | | | | | | |
| Contact Name | KANNAN KALIAPPAN | | | | | | | | | | | | | | | | | | |
| Phone No | 61449669559 | | | | | | | | | | | | | | | | | | |
| Special Directions | | | | | | | | | | | | | | | | | | | |
| Purchase Order | | | | | | | | | | | | | | | | | | | |
| Quote ID No | | | | | | | | | | | | | | | | | | | |
| No | Client Sample ID | Sampled Date/Time dd.mm.yyyy hh:mm | Matrix Solid (S) Water (W) | | | | | | | | | | | Containers Change container type & size if necessary. | | Required Turnaround Time (TAT) Default will be 5 days if not ticked. | | Sample Comments / Dangerous Goods Hazard Warning | |
| | | | | | | | | | | | | | | 500mL Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | | 40mL VOA vial |
| 1 | ST-01-1482-TP1 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 2 | ST-01-1482-TP2 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 3 | ST-01-1482-TP3 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 4 | ST-01-1482-TP4 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 5 | ST-01-1482-TP5 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 6 | ST-01-1482-TP6 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 7 | ST-01-1482-TP7 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 8 | ST-01-1482-TP8 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 9 | ST-01-1482-TP9 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| 10 | ST-01-1482-TP10 | 10.05.2022/ 09:00 | S | X | X | | | | | | | | | | | 1 | | | |
| Total Counts | | | | 10 | 10 | | | | | | | | | | | 10 | | | |
| Method of Shipment | <input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal | | | Name | KANNAN KALIAPPAN | | | | Signature | | | | | Date | 11th May 2022 | | Time | 11pm | |
| Laboratory Use Only | Received By | | | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | | Date | | | Time | | | Temperature | 9.9 °C | |
| | Received By | S-DALLI | | | SYD BNE MEL PER ADL NTL DRW | Signature | | | | | Date | 11/5/22 | | Time | 5:45pm | | Report No | 887680 | |

ANALYTICAL REPORT

REPORT CODE

AR-22-NV-006188-01

REPORT DATE

16/05/2022

For the attention of

Eurofins Environment Testing Australia Pty Ltd

Analytical Reports

6 Monterey Road

Dandenong South

3175 Melbourne

AUSTRALIA

Phone +61 3 8564 5064

Email EnviroReportsau@eurofins.com

Contact for your orders:

Ruvini Herath

Submission Reference:

Merged from order
cau001-order-887683-220513.xml

Order code:

EUAUTWU-00017335

Purchase Order Number:

887683

SAMPLE CODE

726-2022-00017458

Client Reference:

22-My0027236

Sample described as:

ST-01-1482-TP1

Reception Date:

13/05/2022

Analysis Starting Date:

13/05/2022

Sampled Date & Time

10/05/2022 12:00:00

Reception temperature:

9.8 °C

Analysis Ending Date:

16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms

1100

MPN/g

1

SAMPLE CODE

726-2022-00017459

Client Reference:

22-My0027237

Sample described as:

ST-01-1482-TP2

Reception Date:

13/05/2022

Analysis Starting Date:

13/05/2022

Sampled Date & Time

10/05/2022 12:00:00

Reception temperature:

9.8 °C

Analysis Ending Date:

16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms

63

MPN/g

1

SAMPLE CODE

726-2022-00017460

Client Reference:

22-My0027238

Sample described as:

ST-01-1482-TP3

Reception Date:

13/05/2022

Analysis Starting Date:

13/05/2022

Sampled Date & Time

10/05/2022 12:00:00

Reception temperature:

9.8 °C

Analysis Ending Date:

16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms

120

MPN/g

1

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SAMPLE CODE 726-2022-00017461

Client Reference: 22-My0027239
Sample described as: ST-01-1482-TP4
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS
LOQ
VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms >24000 MPN/g 1

SAMPLE CODE 726-2022-00017462

Client Reference: 22-My0027240
Sample described as: ST-01-1482-TP5
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS
LOQ
VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms >24000 MPN/g 1

SAMPLE CODE 726-2022-00017463

Client Reference: 22-My0027241
Sample described as: ST-01-1482-TP6
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS
LOQ
VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms 790 MPN/g 1

SAMPLE CODE 726-2022-00017464

Client Reference: 22-My0027242
Sample described as: ST-01-1482-TP7
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS
LOQ
VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

Total Coliforms 420 MPN/g 1

SAMPLE CODE

726-2022-00017465

Client Reference: 22-My0027243
Sample described as: ST-01-1482-TP8
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

| | | | |
|-----------------|-----|-------|---|
| Total Coliforms | 230 | MPN/g | 1 |
|-----------------|-----|-------|---|

SAMPLE CODE

726-2022-00017466

Client Reference: 22-My0027244
Sample described as: ST-01-1482-TP9
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

| | | | |
|-----------------|------|-------|---|
| Total Coliforms | 1200 | MPN/g | 1 |
|-----------------|------|-------|---|

SAMPLE CODE

726-2022-00017467

Client Reference: 22-My0027245
Sample described as: ST-01-1482-TP10
Reception Date: 13/05/2022
Analysis Starting Date: 13/05/2022
Sampled Date & Time: 10/05/2022 12:00:00

Reception temperature: 9.8 °C
Analysis Ending Date: 16/05/2022

RESULTS

LOQ

VQ237 Total Coliforms

Analysis Starting Date: 13/05/2022 16:48

| | | | |
|-----------------|------|-------|---|
| Total Coliforms | 4400 | MPN/g | 1 |
|-----------------|------|-------|---|

LIST OF METHODS

VQ237 **Total Coliforms:** Internal Method, E-Cultural technique (MPN tubes)

Signature



Di Shen Scientist

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Accreditation Number 20293



EXPLANATORY NOTE

- ◆ test is not accredited
- test is subcontracted within Eurofins group and is accredited
- test is subcontracted within Eurofins group and is not accredited
- test is subcontracted outside Eurofins group and is accredited
- test is subcontracted outside Eurofins group and is not accredited

N/A means Not applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ Limit of Quantification

U Measurement Uncertainty

< Less than, ≤ Less than or equal to

> Greater than, ≥ Greater than or equal to

The tests are identified by a 5 digit code, full details can be provided on request.

Information supplied by the client. This information can have an impact on the validity of results.

Samples are tested as received and the results relate only to the sample tested.

Analysis date is reported as the start date of extraction for a method.

The results may not be reproduced except in full, without a written approval from the laboratory.

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END OF REPORT

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Accreditation Number 20293





☐ **Melbourne Laboratory**
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03 8564 5000 EnviroSampleVic@eurofins.com

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

K2 Enviro Solutions
Suite 1A, Level 2, 802 Pacific Highway
Gordon
NSW 2768



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Attention: **Kannan Kaliappan**

Report **887684-S**
Project name **SELWYN SNOW RESORT PTY LTD**
Project ID **ST-01-1482**
Received Date **May 11, 2022**

| | | | |
|---|------------|-------------|---------------------------|
| Client Sample ID | | | ST-01-1482-TP1-BR1 |
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-My0027247 |
| Date Sampled | | | May 10, 2022 |
| Test/Reference | LOR | Unit | |
| Total Recoverable Hydrocarbons | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 |
| BTEX | | | |
| Benzene | 0.1 | mg/kg | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 136 |
| Polycyclic Aromatic Hydrocarbons | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 |

| | | | |
|---|------|-------|---------------------------|
| Client Sample ID | | | ST-01-1482-TP1-BR1 |
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-My0027247 |
| Date Sampled | | | May 10, 2022 |
| Test/Reference | LOR | Unit | |
| Polycyclic Aromatic Hydrocarbons | | | |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 94 |
| p-Terphenyl-d14 (surr.) | 1 | % | 93 |
| Organochlorine Pesticides | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 |
| Dibutylchlorodate (surr.) | 1 | % | 62 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 70 |
| Organophosphorus Pesticides | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 |

| | | | |
|------------------------------------|-----|-------|---------------------------|
| Client Sample ID | | | ST-01-1482-TP1-BR1 |
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-My0027247 |
| Date Sampled | | | May 10, 2022 |
| Test/Reference | LOR | Unit | |
| Organophosphorus Pesticides | | | |
| Dichlorvos | 0.2 | mg/kg | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 84 |
| Heavy Metals | | | |
| Arsenic | 2 | mg/kg | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 |
| Chromium | 5 | mg/kg | 14 |
| Copper | 5 | mg/kg | 19 |
| Lead | 5 | mg/kg | 10 |
| Mercury | 0.1 | mg/kg | < 0.1 |
| Nickel | 5 | mg/kg | 15 |
| Zinc | 5 | mg/kg | 40 |
| | | | |
| % Moisture | 1 | % | 25 |

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 | May 13, 2022 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | May 13, 2022 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | May 13, 2022 | 14 Days |
| BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH | Sydney | May 13, 2022 | 14 Days |
| Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Sydney | May 13, 2022 | 14 Days |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Sydney | May 13, 2022 | 14 Days |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Sydney | May 13, 2022 | 14 Days |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Sydney | May 13, 2022 | 28 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Sydney | May 11, 2022 | 14 Days |

| | | | | | |
|---|--|-------------------|--------------|----------------------|----------------------|
| Company Name: | K2 Enviro Solutions | Order No.: | | Received: | May 11, 2022 5:14 PM |
| Address: | Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768 | Report #: | 887684 | Due: | May 13, 2022 |
| Project Name: | SELWYN SNOW RESORT PTY LTD | Phone: | 0449 669 559 | Priority: | 2 Day |
| Project ID: | ST-01-1482 | Fax: | | Contact Name: | Kannan Kaliappan |
| Eurofins Analytical Services Manager : Ursula Long | | | | | |

| Sample Detail | | | | | | Moisture Set | Eurofins Suite B10 |
|--|--------------------|--------------|---------------|--------|---------------|--------------|--------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | |
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | 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 | ST-01-1482-TP1-BR1 | May 10, 2022 | 9:00AM | Soil | S22-My0027247 | X | X |
| Test Counts | | | | | | 1 | 1 |

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

| | |
|-------------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| TBTO | Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TEQ | Toxic Equivalency Quotient or Total Equivalence |
| QSM | US Department of Defense Quality Systems Manual Version 5.4 |
| US EPA | United States Environmental Protection Agency |
| WA DWER | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA |

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

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

Quality Control Results

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

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| 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 | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| LCS - % Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | | | | | | | |
| TRH C6-C9 | % | 107 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 86 | | | 70-130 | Pass | |
| Naphthalene | % | 96 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 105 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 85 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| BTEX | | | | | | | |
| Benzene | % | 100 | | | 70-130 | Pass | |
| Toluene | % | 102 | | | 70-130 | Pass | |
| Ethylbenzene | % | 103 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 103 | | | 70-130 | Pass | |
| o-Xylene | % | 103 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 103 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | % | 92 | | | 70-130 | Pass | |
| Acenaphthylene | % | 86 | | | 70-130 | Pass | |
| Anthracene | % | 99 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 80 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 89 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 86 | | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | % | 100 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 85 | | | 70-130 | Pass | |
| Chrysene | % | 88 | | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | % | 104 | | | 70-130 | Pass | |
| Fluoranthene | % | 88 | | | 70-130 | Pass | |
| Fluorene | % | 102 | | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | % | 103 | | | 70-130 | Pass | |
| Naphthalene | % | 92 | | | 70-130 | Pass | |
| Phenanthrene | % | 91 | | | 70-130 | Pass | |
| Pyrene | % | 92 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 109 | | | 70-130 | Pass | |
| 4,4'-DDD | % | 102 | | | 70-130 | Pass | |
| 4,4'-DDE | % | 91 | | | 70-130 | Pass | |
| 4,4'-DDT | % | 109 | | | 70-130 | Pass | |
| a-HCH | % | 89 | | | 70-130 | Pass | |
| Aldrin | % | 93 | | | 70-130 | Pass | |
| b-HCH | % | 94 | | | 70-130 | Pass | |
| d-HCH | % | 88 | | | 70-130 | Pass | |
| Dieldrin | % | 93 | | | 70-130 | Pass | |
| Endosulfan I | % | 91 | | | 70-130 | Pass | |
| Endosulfan II | % | 84 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 74 | | | 70-130 | Pass | |
| Endrin | % | 88 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 84 | | | 70-130 | Pass | |
| Endrin ketone | % | 71 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 94 | | | 70-130 | Pass | |
| Heptachlor | % | 97 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 109 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 104 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|--|--|-------------------|-------------|-----------------|
| Methoxychlor | | | % | 88 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Organophosphorus Pesticides | | | | | | | | | |
| Diazinon | | | % | 84 | | | 70-130 | Pass | |
| Dimethoate | | | % | 83 | | | 70-130 | Pass | |
| Ethion | | | % | 110 | | | 70-130 | Pass | |
| Fenitrothion | | | % | 92 | | | 70-130 | Pass | |
| Methyl parathion | | | % | 106 | | | 70-130 | Pass | |
| Mevinphos | | | % | 86 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Arsenic | | | % | 101 | | | 80-120 | Pass | |
| Cadmium | | | % | 95 | | | 80-120 | Pass | |
| Chromium | | | % | 95 | | | 80-120 | Pass | |
| Copper | | | % | 89 | | | 80-120 | Pass | |
| Lead | | | % | 96 | | | 80-120 | Pass | |
| Mercury | | | % | 99 | | | 80-120 | Pass | |
| Nickel | | | % | 90 | | | 80-120 | Pass | |
| Zinc | | | % | 86 | | | 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 | S22-My0028126 | NCP | % | 83 | | | 70-130 | Pass | |
| TRH C10-C14 | W22-My0011083 | NCP | % | 78 | | | 70-130 | Pass | |
| Naphthalene | S22-My0028126 | NCP | % | 92 | | | 70-130 | Pass | |
| TRH C6-C10 | S22-My0028126 | NCP | % | 81 | | | 70-130 | Pass | |
| TRH >C10-C16 | W22-My0011083 | NCP | % | 77 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| BTEX | | | | Result 1 | | | | | |
| Benzene | S22-My0028126 | NCP | % | 88 | | | 70-130 | Pass | |
| Toluene | S22-My0028126 | NCP | % | 88 | | | 70-130 | Pass | |
| Ethylbenzene | S22-My0028126 | NCP | % | 92 | | | 70-130 | Pass | |
| m&p-Xylenes | S22-My0028126 | NCP | % | 93 | | | 70-130 | Pass | |
| o-Xylene | S22-My0028126 | NCP | % | 94 | | | 70-130 | Pass | |
| Xylenes - Total* | S22-My0028126 | NCP | % | 93 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | | | |
| Acenaphthene | W22-My0011084 | NCP | % | 100 | | | 70-130 | Pass | |
| Acenaphthylene | W22-My0011084 | NCP | % | 94 | | | 70-130 | Pass | |
| Anthracene | W22-My0011084 | NCP | % | 108 | | | 70-130 | Pass | |
| Benz(a)anthracene | W22-My0011084 | NCP | % | 87 | | | 70-130 | Pass | |
| Benzo(a)pyrene | W22-My0011084 | NCP | % | 96 | | | 70-130 | Pass | |
| Benzo(b&i)fluoranthene | W22-My0011084 | NCP | % | 95 | | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | W22-My0011084 | NCP | % | 70 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | W22-My0011084 | NCP | % | 97 | | | 70-130 | Pass | |
| Chrysene | W22-My0011084 | NCP | % | 96 | | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | W22-My0011084 | NCP | % | 86 | | | 70-130 | Pass | |
| Fluoranthene | W22-My0011084 | NCP | % | 88 | | | 70-130 | Pass | |
| Fluorene | W22-My0011084 | NCP | % | 108 | | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | W22-My0011084 | NCP | % | 84 | | | 70-130 | Pass | |
| Naphthalene | W22-My0011084 | NCP | % | 99 | | | 70-130 | Pass | |
| Phenanthrene | W22-My0011084 | NCP | % | 95 | | | 70-130 | Pass | |
| Pyrene | W22-My0011084 | NCP | % | 94 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Organochlorine Pesticides | | | | Result 1 | | | | | |
| Chlordanes - Total | W22-My0011084 | NCP | % | 88 | | | 70-130 | Pass | |
| 4.4'-DDD | W22-My0011084 | NCP | % | 93 | | | 70-130 | Pass | |
| 4.4'-DDE | W22-My0011084 | NCP | % | 89 | | | 70-130 | Pass | |
| 4.4'-DDT | W22-My0011084 | NCP | % | 106 | | | 70-130 | Pass | |
| a-HCH | W22-My0011084 | NCP | % | 86 | | | 70-130 | Pass | |
| Aldrin | W22-My0011084 | NCP | % | 90 | | | 70-130 | Pass | |
| b-HCH | W22-My0011084 | NCP | % | 104 | | | 70-130 | Pass | |
| d-HCH | W22-My0011084 | NCP | % | 96 | | | 70-130 | Pass | |
| Dieldrin | W22-My0011084 | NCP | % | 87 | | | 70-130 | Pass | |
| Endosulfan I | W22-My0011084 | NCP | % | 96 | | | 70-130 | Pass | |
| Endosulfan II | W22-My0011084 | NCP | % | 84 | | | 70-130 | Pass | |
| Endosulfan sulphate | S21-No14213 | NCP | % | 75 | | | 70-130 | Pass | |
| Endrin | W22-My0011084 | NCP | % | 91 | | | 70-130 | Pass | |
| Endrin aldehyde | S22-My0015184 | NCP | % | 80 | | | 70-130 | Pass | |
| Endrin ketone | W22-My0011084 | NCP | % | 70 | | | 70-130 | Pass | |
| g-HCH (Lindane) | W22-My0011084 | NCP | % | 110 | | | 70-130 | Pass | |
| Heptachlor | W22-My0011084 | NCP | % | 127 | | | 70-130 | Pass | |
| Heptachlor epoxide | W22-My0011084 | NCP | % | 89 | | | 70-130 | Pass | |
| Hexachlorobenzene | W22-My0011084 | NCP | % | 95 | | | 70-130 | Pass | |
| Methoxychlor | S21-No14213 | NCP | % | 88 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | | |
| Diazinon | W22-My0011084 | NCP | % | 95 | | | 70-130 | Pass | |
| Dimethoate | S21-No14213 | NCP | % | 121 | | | 70-130 | Pass | |
| Ethion | W22-My0011084 | NCP | % | 96 | | | 70-130 | Pass | |
| Fenitrothion | S21-No14213 | NCP | % | 118 | | | 70-130 | Pass | |
| Methyl parathion | S21-No14213 | NCP | % | 136 | | | 70-130 | Fail | Q08 |
| Mevinphos | W22-My0011084 | NCP | % | 89 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Arsenic | S22-My0017749 | NCP | % | 87 | | | 75-125 | Pass | |
| Cadmium | S22-My0015293 | NCP | % | 86 | | | 75-125 | Pass | |
| Chromium | S22-My0017749 | NCP | % | 80 | | | 75-125 | Pass | |
| Lead | S22-My0017749 | NCP | % | 84 | | | 75-125 | Pass | |
| Mercury | S22-My0015293 | NCP | % | 87 | | | 75-125 | Pass | |
| Zinc | S22-My0015874 | NCP | % | 75 | | | 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 | S22-My0028125 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | R22-My0022930 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | R22-My0022930 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | R22-My0022930 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| Naphthalene | S22-My0028125 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-My0028125 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH >C10-C16 | R22-My0022930 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C16-C34 | R22-My0022930 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| TRH >C34-C40 | R22-My0022930 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|----------------------------------|---------------|-----|-------|----------|----------|-----|-----|------|
| BTEX | | | | Result 1 | Result 2 | RPD | | |
| Benzene | S22-My0028125 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Toluene | S22-My0028125 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Ethylbenzene | S22-My0028125 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| m&p-Xylenes | S22-My0028125 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| o-Xylene | S22-My0028125 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Xylenes - Total* | S22-My0028125 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | Result 2 | RPD | | |
| Acenaphthene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Acenaphthylene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Anthracene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benz(a)anthracene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(a)pyrene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(b&j)fluoranthene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(g,h,i)perylene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzo(k)fluoranthene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chrysene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Dibenz(a,h)anthracene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Fluoranthene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Fluorene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Indeno(1,2,3-cd)pyrene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Naphthalene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Phenanthrene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Pyrene | W22-My0011090 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes - Total | W22-My0011090 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| 4,4'-DDD | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDE | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDT | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| a-HCH | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Aldrin | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| b-HCH | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| d-HCH | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Dieldrin | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan I | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan II | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan sulphate | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin aldehyde | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin ketone | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| g-HCH (Lindane) | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor epoxide | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Hexachlorobenzene | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Methoxychlor | W22-My0011090 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Toxaphene | S22-My0030359 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Azinphos-methyl | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Bolstar | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorfenvinphos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos-methyl | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|-----------------------------|---------------|-----|-------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Coumaphos | W22-My0011090 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Demeton-S | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Demeton-O | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Diazinon | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dichlorvos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dimethoate | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Disulfoton | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| EPN | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethoprop | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethyl parathion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenitrothion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fensulfotthion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenthion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Malathion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Merphos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methyl parathion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Mevinphos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Monocrotophos | W22-My0011090 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Naled | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Omethoate | W22-My0011090 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phorate | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pirimiphos-methyl | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pyrazophos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ronnel | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | W22-My0011090 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S22-My0025867 | NCP | mg/kg | 7.5 | 6.3 | 18 | 30% | Pass |
| Cadmium | S22-My0025867 | NCP | mg/kg | 1.3 | 1.0 | 18 | 30% | Pass |
| Chromium | S22-My0025867 | NCP | mg/kg | 22 | 20 | 13 | 30% | Pass |
| Copper | S22-My0025867 | NCP | mg/kg | 460 | 400 | 15 | 30% | Pass |
| Lead | S22-My0025867 | NCP | mg/kg | 290 | 250 | 15 | 30% | Pass |
| Mercury | S22-My0025867 | NCP | mg/kg | 0.5 | 0.4 | 12 | 30% | Pass |
| Nickel | S22-My0025867 | NCP | mg/kg | 11 | 9.1 | 15 | 30% | Pass |
| Zinc | S22-My0025867 | NCP | mg/kg | 410 | 350 | 16 | 30% | Pass |
| Duplicate | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | |
| % Moisture | S22-My0027018 | NCP | % | 23 | 21 | 9.0 | 30% | Pass |

Comments

Sample Integrity

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

Qualifier Codes/Comments

| Code | Description |
|------|--|
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference. |

Authorised by:

| | |
|--------------------|-----------------------------|
| Ursula Long | Analytical Services Manager |
| Gabriele Cordero | Senior Analyst-Metal |
| Roopesh Rangarajan | Senior Analyst-Volatile |
| Roopesh Rangarajan | Senior Analyst-Organic |



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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☐ **Melbourne Laboratory**
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Euroflins Environment Testing Australia Pty Ltd

Submission of samples to the laboratory will be deemed as acceptance of Eurofins' Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

88768



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET101135 / 104315 / 1 - 10

Your ref : ST-01-1482 – 213A Kings Cross Road Cabramurra NSW 2629

NATA Accreditation No: 14484

12 May 2022

K2 Consulting Group
Suite 1A Level 2 802 Pacific Highway
Gordon NSW 2072



Attn: Mr Kannan Kaliappan

Dear Kannan

Accredited for compliance with ISO/IEC 17025 - Testing.

Asbestos Identification

This report presents the results of ten samples, forwarded by K2 Enviro Solutions on 12 May 2022, for analysis for asbestos. This report supersedes the report issued earlier today.

1.Introduction:Ten samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).

3. Results : **Sample No. 1. ASET101135 / 104315 / 1. ST-01-1482 - TP1 - ASB1.**
Approx dimensions 6.0 cm x 6.0 cm x 1.4 cm
The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter
No asbestos detected.

Sample No. 2. ASET101135 / 104315 / 2. ST-01-1482 – TP2 - ASB2.
Approx dimensions 6.0 cm x 6.0 cm x 1.6 cm
The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter
No asbestos detected.

Sample No. 3. ASET101135 / 104315 / 3. ST-01-1482 – TP3 - ASB3.
Approx dimensions 6.0 cm x 6.0 cm x 1.7 cm
The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter
No asbestos detected.

Sample No. 4. ASET101135 / 104315 / 4. ST-01-1482 – TP4 - ASB4.
Approx dimensions 6.0 cm x 6.0 cm x 2.8 cm
The sample consisted of a mixture of clayish sandy soil, organic fibres, shale and stones.
No asbestos detected.

Sample No. 5. ASET101135 / 104315 / 5. ST-01-1482 – TP5 - ASB5.
Approx dimensions 6.0 cm x 6.0 cm x 1.8 cm
The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter.
No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

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Sample No. 6. ASET101135 / 104315 / 6. ST-01-1482 – TP6 - ASB6.

Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm

The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter.

No asbestos detected.

Sample No. 7. ASET101135 / 104315 / 7. ST-01-1482 – TP7 - ASB7.

Approx dimensions 6.0 cm x 6.0 cm x 1.6 cm

The sample consisted of a mixture of clayish sandy soil, shale, organic fibres, stones and plant matter.

No asbestos detected.

Sample No. 8. ASET101135 / 104315 / 8. ST-01-1482 – TP8 - ASB8.

Approx dimensions 6.0 cm x 6.0 cm x 1.4 cm

The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter.

No asbestos detected.

Sample No. 9. ASET101135 / 104315 / 9. ST-01-1482 – TP9 - ASB9.

Approx dimensions 6.0 cm x 6.0 cm x 2.2 cm

The sample consisted of a mixture of clayish sandy soil, organic fibres, shale, stones and plant matter.

No asbestos detected.

Sample No. 10. ASET101135 / 104315 / 10. ST-01-1482 - TP10 - ASB10.

Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, shale and plant matter.

No asbestos detected.

Reported by,

A handwritten signature in black ink, appearing to read "Mahen De Silva". The signature is written in a cursive style with a large loop at the beginning.

**Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory**



Accredited for compliance with ISO/IEC 17025 -Testing.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964-2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by AS4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

ASET101135/104315/1-10



K2 CONSULTING GROUP

CHAIN OF CUSTODY

| | | | | | |
|---|--|----------------------------------|--------------|------------------|-------------------------|
| CLIENT: Selwyn Snow Resort Pty Ltd | | TURNAROUND REQUIREMENTS : URGENT | | URGENT | |
| OFFICE: | | | | | |
| PROJECT NO: ST-01-1482 | | SAMPLED ON: 10.05.2022 | | | |
| ADDRESS: 213A Kings Cross Road, Cabramurra, NSW 2629 | | | | | |
| PROJECT MANAGER: Kannan Kaliappan | | CONTACT PH: 0449669559 | | | |
| SAMPLER: Kannan Kaliappan | | RELINQUISHED BY: Kannan Kali | RECEIVED BY: | RELINQUISHED BY: | RECEIVED BY: /km |
| COC emailed to lab? (YES / NO) Yes EDD FORMAT (or default): | | DATE/TIME: 11.05.2022; 15:00 hrs | DATE/TIME: | DATE/TIME: | DATE/TIME: 12/5/22 8:30 |
| Email Reports to (will default to PM if no other addresses are listed): kannan@k2consultinggroup.com.au | | | | | |
| Email Invoice to (will default to PM if no other addresses are listed): kannan@k2consultinggroup.com.au | | | | | |

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

| SAMPLE DETAILS MATRIX: SOIL/VINYL DUST SWAB OR TAPE/FF | | | | CONTAINER INFORMATION | | ANALYSIS REQUIRED | | | | | | | | Additional Information | |
|---|----------------------|-----------------------|--------|-----------------------|------------------|-------------------------------------|--|--------------------------------------|----------------------------------|--|---|----------------------|--|---|--|
| S no | SAMPLE ID | DATE / TIME | MATRIX | CONTAINER INFORMATION | TOTAL CONTAINERS | Asbestos in soil (presence/absence) | Asbestos Cement Sheet (presence / absence) | Asbestos in Vinyl (presence/absence) | Asbestos Dust (presence/absence) | Asbestos in Bitumen (present / absent) | Asbestos in insulation (Present / absent) | Asbestos in Material | | Comments on likely contaminant levels, dilutions or samples requiring specific QC analysis etc: | |
| 1 | ST-01-1482-TP1-ASB1 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 2 | ST-01-1482-TP1-ASB2 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 3 | ST-01-1482-TP1-ASB3 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 4 | ST-01-1482-TP1-ASB4 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 5 | ST-01-1482-TP1-ASB5 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 6 | ST-01-1482-TP1-ASB6 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 7 | ST-01-1482-TP1-ASB7 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 8 | ST-01-1482-TP1-ASB8 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 9 | ST-01-1482-TP1-ASB9 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| 10 | ST-01-1482-TP1-ASB10 | 10.05.2022; 09:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | | | |
| | | | | | TOTAL | 10 | | | | | | | | | |

RECEIVED
12 MAY 2022

BY: [Signature]