



# CHEC

Compliance Health &  
Environmental Consulting

## Detailed Site Investigation

### Property

132-134 Beecroft Road,  
Beecroft NSW 2119

### Client

Thompson Healthcare No. 2  
Holdings Pty Ltd C/- Northside  
Construction  
20/924 Pacific Hwy,  
Gordon NSW 2072

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| Prepared For | Thompson Healthcare No. 2 Holdings Pty Ltd C/- Northside Construction |              |         |
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The undersigned confirm that this document and all associated attachments relate to the Site under investigation and have been reviewed and checked for errors, omissions and inaccuracies.

| Name         | Signature                                                                           | Position | Date       |
|--------------|-------------------------------------------------------------------------------------|----------|------------|
| Richard Case |  | Director | 24/10/2025 |





## Executive Summary

Compliance Health & Environmental Consulting Pty Ltd (CHEC) was engaged by Thompson Health No2 Holding Care Pty Ltd c/o - Northside Constructions Pty Ltd to undertake a Detailed Site Investigation (DSI) on the properties located at 132 to 134 Beecroft Road, Beecroft. The report was required to support a State Significant development application (SSD-86878982) in response to Item 13 of the Planning Secretary's Environmental Assessment Requirements (SEARs) and in accordance with the State Environmental Planning Policy (Resilience and Hazards), 2021.

Initial assessment of the property, undertaken by CHEC in July 2025 (CH1648-D25023), indicated further investigation was necessary to determine if the site was suitable for its intended land use. As such, this DSI was requested to address the potential concerns discussed in the Preliminary Site Investigation.

For the boundaries of the assessment refer to the attached Figure 1 – Site Location and Figure 2 – Site Survey.

The objective of the investigation is to determine if the risk of contamination may prevent the site being considered suitable for its intended use.

Should the findings of the investigation state that the land is not suitable for the intended land use, a recommendation will be made for any remedial work that may be required to make it suitable. Should the investigation identify data gaps that prevent a decision being made, recommendations to obtain the additional data and provide a level of confidence to make a decision will be provided.

The Site consists of two adjoining lots and is a rectangular shaped parcel of land covering 7500m<sup>2</sup> that has a 60m frontage to the southeastern side of Beecroft Road. The property is relatively level on the crest of a broad hill having a slightly south-east aspect.

**Table - 1: Summary of Property Information**

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| <b>Site Address</b>               | 132 & 134 Beecroft Road, Beecroft       |
| <b>Lot Identification</b>         | Lot F in DP15298, and Lot C in DP317843 |
| <b>Site Area</b>                  | ~7900m <sup>2</sup>                     |
| <b>Zoning</b>                     | R2 Low Density Residential              |
| <b>Local Government Authority</b> | Hornsby Shire Council                   |
| <b>Current land use</b>           | Commercial/Residential                  |

Sampling was undertaken on Thursday 18th September 2025. A 5-tonne excavator was used to extend 14 test pits to natural ground across the entire Site, which was encountered at a maximum depth of 0.6mbgl, though typically 0.4m or less.

The sampling program adopted for this investigation was intended to provide supplementary information to the PSI based on the identified areas of concern. The two areas of concern within Lot F comprised of the turfed backyard area (AEC-1), located in the southern portion of the site, and the soils immediately adjacent to the house (AEC-2). The backyard investigation covered approximately 1000 m<sup>2</sup> (0.1 ha) and the area of concern next to the house covered approximately 100m<sup>2</sup> in the central portion of the Lot.



Based on the visual inspection of 10 test pits in the backyard area, soils were observed to be an organic brown loamy clay fill throughout, though distinct areas were observed to contain foreign material, including building waste. Building material consisted of brick and plastic pipe within soils of TP2 and TP3. Fragments of Asbestos Containing Material (ACM) were observed within fill at TP2, TP3 and TP6.

Fragments of ACM were observed on the surface of TP11; however, no evidence of ACM fragments was observed in sub surface soils.

Fill material was underlain by either natural orange clay or grey shales, occurring at depths between 0.3 – 0.5mbgl. Refer to Figure 2 for sampling locations.

The investigation has considered all relevant historical and anecdotal information and, based on the outcomes of the desktop study and Site inspection, CHEC developed and implemented a sampling strategy to provide a high level of confidence for determination of land use suitability. Quality control indicators suggested that the samples were representative of the soils under investigation.

Three Areas of Environmental Concern (AECs) were identified by the CSM and a representative sampling plan was implemented to address potential contamination concerns from the AECs.

The PSI identified historical demolition to have potentially impacted the backyard area of the site. The area was designated AEC-1 and subjected to visual inspection of 10 test pits. Foreign material was identified in four locations, identified as TP2, TP3, TP6 and TP8, which were then subjected to sampling for laboratory analysis. Laboratory analysis indicated that the samples did not contain asbestos fines or friable asbestos.

Field gravimetric analysis at TP2 resulted in land use exceedance for bonded ACM. The location was typical of observations at both TP3 and TP6 also and the result was, therefore, considered representative of all three locations. The fill type was also consistent at TP8. No ACM was observed in that test pit; however, it is not unreasonable to assume that despite the absence of ACM in TP8, the fill type is likely to contain ACM at some concentration.

The soils in the back yard that contain foreign material, including ACM, will require remediation to make the site suitable for the intended land use.

The PSI identified the potential for hazardous building material in the form of asbestos and lead paint to have contaminated surrounding surface soils of the residential structure on Lot F. The area was designated as AEC-2, and subject to visual inspection of four test pits. Broken ACM sheeting was observed on the surface in the vicinity of TP11; however, observations of the test pit indicated the ACM did not extend into subsurface fill.

Laboratory analysis of fill soils at TP11 did not detect asbestos in any form, suggesting the distribution of ACM was limited to the surface and had not been weathered or damaged to produce fibres. The observation of broken wall sheets on the adjacent structure provides additional evidence to support the finding that ACM was limited to surface impact.

Surface samples obtained from TP12, were not measured to contain significant concentrations of lead, indicating that lead paint had not impacted surrounding surface soils.

Based off the geotechnical report, the PSI identified the potential for imported fill materials to reside beneath the existing structures. This area was designated as AEC-3. Demolition had not occurred at the time of this investigation, and as such, this concern remains a data gap.



The confirmation of asbestos in soils within AEC-1, indicate that the source-pathway-receptor linkage identified in the CSM, is now complete. As a result, receptors are likely to be exposed to the contaminant during construction work and occupation. The risk assessment of AEC-1 is increased from medium to high risk, and remedial measures are required to make the site suitable.

Bonded asbestos in the form of fibre cement fragments on the surface at TP11 will also require removal prior to demolition to mitigate the source. The absence of lead and asbestos in subsurface soil in AEC-2, suggests there is no source – receptor pathway from fill soils generally and do not require remediation

The area of fill soil requiring remediation may be limited to the 750m<sup>2</sup> that included foreign material observations within the approximately 1200m<sup>2</sup> back yard. The average fill depth was noted to be approximately 0.4m, resulting in a potential 300m<sup>3</sup> of contaminated fill. Should the fill be disposed off-site, it will require classification as Special Waste-Asbestos.

Subsequent to remedial work, validation of remaining soils will be required to demonstrate land use suitability. The remedial method and validation requirement shall be discussed in a Remediation Action Plan (RAP).

A data gap exists where observation and chemical analysis were not able to be undertaken on land beneath the buildings, and the retained soils in garden beds, on both Lot C and Lot F. Once demolition occurs, inspection and sampling of the building footprints in accordance with the NSW EPA, 2022 should be undertaken to demonstrate land use suitability. Inspection of soils behind retaining walls shall include sampling where foreign materials are observed.

An asbestos clearance certification is required in accordance NSW Safework Code of Practice – How to Safely Remove Asbestos, 2022, should occur pre demolition.

Based on the available data and the information provided, the Site identified as 132-134 Beecroft Road, Beecroft **can be made suitable for its intended land use as HIL B Residential - minimal opportunities for soil access**. A Remediation Action Plan shall be developed to address the areas of contamination discussed with this report and include provision to obtain the additional data from the recommended data gap investigations.



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## 1.0 Introduction

### 1.1 Background

Compliance Health & Environmental Consulting Pty Ltd (CHEC) was engaged by Thompson Health No2 Holding Care Pty Ltd c/o - Northside Constructions Pty Ltd to undertake a Detailed Site Investigation (DSI) on the properties located at 132 to 134 Beecroft Road, Beecroft. The report was required to support a State Significant development application (SSD-86878982) in response to Item 13 of the Planning Secretary's Environmental Assessment Requirements (SEARs) and in accordance with the State Environmental Planning Policy (Resilience and Hazards), 2021.

Initial assessment of the property, undertaken by CHEC in July 2025 (CH1648-D25023), indicated further investigation was necessary to determine if the site was suitable for its intended land use. As such, this DSI was requested to address the potential concerns discussed in the Preliminary Site Investigation.

For the boundaries of the assessment refer to the attached **Figure 1** – Site Location and **Figure 2** – Site Survey.

### 1.2 Project Objectives

The objective of the investigation is to determine if the risk of contamination may prevent the site being considered suitable for its intended use.

Should the findings of the investigation state that the land is not suitable for the intended land use, a recommendation will be made for any remedial work that may be required to make it suitable. Should the investigation identify data gaps that prevent a decision being made, recommendations to obtain the additional data and provide a level of confidence to make a decision will be provided.

### 1.3 Regulatory Framework

Assessment of the Site and recommendations have been provided with reference to relevant State and federal legislation, and guidelines made thereunder. These include:

- National Environment Protection Council (New South Wales) Act 1995 No 4
- Environmental Planning & Assessment Act. 1979
- State Environmental Planning Policy (Resilience & Hazards), 2021
- Contaminated Land Management Act, 1997
- Protection of Environment Operations Act, 1997

The assessment will be undertaken in accordance with methods provided in the National Environment Protection (Assessment of Site Contamination) Measure, 1999, as amended 2013 (NEPM, 2013) and reported in accordance with the NSW EPA Contaminated Land Guidelines: Consultants Reporting on Contaminated Land, 2020.

In order to make a decision on the contamination status of the Site, reference will be made to Tier 1 screening criteria defined by Health Investigation Levels (HIL) and Health Screening Levels (HSL) provided by the NEPM, 2013. The property will be assessed with reference to Residential B - Residential with minimal opportunities for soil access; which includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats.



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#### 1.4 Scope of Work

The following methods were employed to determine Site suitability:

- Review of Site-specific background information including, historical land use and Aerial Photography, and geological and hydrogeological information.
- Development of a Sampling, Analysis and Quality Plan.
- Undertake field investigations, including site Inspection, soil sampling and laboratory analysis from representative locations.
- Data quality assessment.
- Interpretation of results for the purpose of Tier 1 Risk Assessment.
- Report findings of Investigation.



## 2.0 Data Quality Objectives

The successful outcome of an environmental study is dependent on development of appropriate Data Quality Objectives (DQOs). This study planning process is used to establish the representativeness of both qualitative and quantitative data, including methods and locations for collecting data of sufficient quality and quantity to evaluate a Site. It also sets performance and acceptance criteria, which serve to minimise error and ensure the required precision in the data set to achieve the confidence intervals required to make a conclusive decision in the Site Investigation stage.

The DQO process consists of seven iterative steps, which, although portrayed in a sequential fashion, the nature of the DQO process allows one or more of these steps to be revisited as the conceptual model for the Site becomes more distinct and more information on the problem is obtained. The DQOs are set out below in the following sections.

### 2.1 Step 1 – The Problem:

The PSI indicated that there is a potential for an unacceptable risk of contamination in soils within the backyard area and soils adjacent to the house. The extent of the contamination needs to be determined to guide construction activities and address land use suitability.

### 2.2 Step 2 – The Goal of the Study

The goal of the study is to develop and undertake a representative intrusive investigation to provide sufficient confidence that enables a decision to be made on land use suitability. If contaminant concentrations do not comply with land use suitability criteria, recommendations for further investigation or remediation will be provided.

### 2.3 Step 3 – Information Inputs

The data has been provided from the following sources:

- Review of previous reports
- Site observations.
- Laboratory analysis of representative soils from test pit locations.
- Evaluation of soil analytical data.

### 2.4 Step 4 – Study Boundaries

This study includes assessment of Lot F in DP15298, and Lot C in DP317843; however, due to the presence of building limiting access to some data gap areas, intrusive investigations were limited to areas of concern in Lot F only, as identified by the PSI. Refer to the attached **Figure 2 – Site Survey**.

Intrusive samples were extended to the depth of natural ground, or to the extent of potential contamination in the event that underground sources are present. The surrounding community and potential future receptors within and nearby the Site are also considered.

### 2.5 Step 5 – The Analytical Approach

The study was limited in scope and intended to provide an estimate of average concentrations to determine the likelihood that contaminants were compliant with Tier 1 criteria provided by NEPM, 2013.

Further detail on sampling method and the laboratory analytical scope is provided in Section 7.0.



## 2.6 Step 6 - Performance and Acceptance Criteria

### 2.6.1 Site Acceptance Criteria

The objective of this investigation was to provide supplementary data on contaminants of concern to determine the potential to exceed the Tier 1 NEPM HIL/HSL concentrations. Should any exceedance be observed from either field assessment or laboratory analysis, the site will be considered not suitable for the intended use. In the event that the site does not comply with Site Acceptance criteria (SAC), further investigation may be recommended to delineate the extent of the identified contamination.

### 2.6.2 Statistical Performance

A Site under investigation is assumed to be contaminated until statistically proven otherwise (e.g.:  $H_0$  = soil concentrations > acceptance criteria), therefore two types of error are possible:

Type 1 error – Where the site is assessed to be uncontaminated when it is actually is. The probability of this occurring =  $\alpha$ . Type 2 error when the Site is assessed to be contaminated though is actually not. The probability of this occurring =  $\beta$ . Environmental investigations regularly use  $\alpha$  of 0.05 as this provides a reasonable compromise between detecting contamination and incurring unnecessary cost associated with type 2 errors.

### 2.6.3 Quality Control

To avoid the potential for any type 1 or type 2 errors being introduced into the data collection process the following quality indicators were implemented to monitor performance:

**Table - 1: Data Quality Indictors**

| Data Precision and Accuracy                                                                          |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Adequate Sampling Density</b>                                                                     | Soil sampling frequency determined in accordance with the NSW EPA <i>Contaminated Land Guidelines: Sampling Design Part 1 – Application 2022</i> .                       |
| <b>Appropriate Analytical Techniques</b>                                                             | Use of analytical laboratories with adequately trained and experienced testing staff experienced in the analyses undertaken, with appropriate NATA certification.        |
| <b>Acceptable field and laboratory Relative Percentage Difference (RPD) for duplicate comparison</b> | >10 x LOR: 30% inorganics; 50% organics (Field)<br><10 x LOR: Assessed on individual basis (Field)<br>>5 x LOR: 50% (laboratory)<br><5 x LOR: No Limit (laboratory)      |
| <b>Trip Spikes</b>                                                                                   | Recoverable concentrations of volatiles between 60 – 140%                                                                                                                |
| <b>Adequate laboratory performance</b>                                                               | Based on acceptance criteria of laboratory as specified on certificate of analysis: includes: blank samples, matrix spikes, control samples, and surrogate spike samples |
| Data Representativeness                                                                              |                                                                                                                                                                          |
| <b>Sample and analysis selection</b>                                                                 | Representativeness of all potential contaminants                                                                                                                         |
| <b>Trip Blanks/ Rinsate Blanks</b>                                                                   | No Detection above LOR                                                                                                                                                   |
| <b>Trip Spikes</b>                                                                                   | Recoverable concentrations of volatiles between 60 – 140%                                                                                                                |
| <b>Duplicate Samples</b>                                                                             | Adequate duplicate, split, rinsate and trip blank sample numbers                                                                                                         |
| <b>Laboratory selection</b>                                                                          | Adequate laboratory internal quality control and quality assurance methods, complying with the NEPM.                                                                     |
| Documentation Completeness                                                                           |                                                                                                                                                                          |
| <b>Chain of custody records</b>                                                                      | Laboratory sample receipt information received confirming receipt of samples intact and appropriate chain of custody                                                     |



|                               |                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
|                               | NATA registered laboratory results certificates provided                                                |
| <b>Data Completeness</b>      |                                                                                                         |
| <b>Analytical Suites</b>      | Analysis for all potential contaminants of concern.                                                     |
| <b>Confidence Levels</b>      | Field duplicate sample numbers complying with AS4482.1 - 2005                                           |
| <b>Transport and Handling</b> | Trip spike samples prepared and sent with field samples regularly                                       |
| <b>Comparability</b>          |                                                                                                         |
| <b>Analytical Standards</b>   | Use of NATA registered laboratories                                                                     |
| <b>Data Quality</b>           | Test methods consistent for each sample in accordance with the Sampling Analysis and Quality Plan       |
| <b>Traceability</b>           | Detailed logs of all sample locations to be recorded                                                    |
| <b>Analytical Methods</b>     | Test methods comparable between primary and secondary laboratory                                        |
| <b>Confidence Levels</b>      | Acceptable RPD's between original samples and field duplicates and inter-laboratory triplicate samples. |

## 2.7 Step 7 – Obtaining Data

Qualitative data was obtained from recognised reliable sources and included:

- NSW Spatial Services – Historical Aerial Photography and Property Information.
- NSW Dept. Planning, Industry & Environment – eSPADE Soil and Groundwater Reports.
- Water NSW Groundwater Works Database.
- NSW EPA Public Register Searches.
- Field observations to identify potential contaminants of concern was undertaken from 14 representative locations.

Refer to Section 7.0 for details on sampling design where quantitative data was obtained from eight representative locations. Laboratory data were assessed directly against the land use HIL/HSL for contaminants of concern.





## 3.0 Site identification and Land Use Details

### 3.1 Site Description

The Site consists of two adjoining lots and is a rectangular shaped parcel of land covering 7500m<sup>2</sup> that has a 60m frontage to the southeastern side of Beecroft Road. The property is relatively level on the crest of a broad hill having a slightly south-east aspect.

The details of the site have been summarised in the table below

**Table - 1: Summary of Property Information**

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| <b>Site Address</b>               | 132 & 134 Beecroft Road, Beecroft       |
| <b>Lot Identification</b>         | Lot F in DP15298, and Lot C in DP317843 |
| <b>Site Area</b>                  | ~7900m <sup>2</sup>                     |
| <b>Zoning</b>                     | R2 Low Density Residential              |
| <b>Local Government Authority</b> | Hornsby Shire Council                   |
| <b>Current land use</b>           | Commercial/Residential                  |

### 3.2 Onsite and Surrounding Land Uses

The surrounding land to the north, east and south is occupied by residential housing. Beecroft Road occupies the north-eastern boundary. The property at 132 is occupied by a small residence that includes hardstand areas off Beecroft Road and transitions to grassed lawn area at the rear. The property at 134 Beecroft Road is substantially covered by either buildings or asphalt carpark with small ornamental garden at the front.

### 3.3 Proposed Land Use

The propose development includes demolition of existing structures and construction of a three-storey residential aged care building with a basement car park. Areas of the lot following completion of the proposed development not covered by the building include several courtyards and an unexcavated area assumed to be turfed. Refer to **Appendix C: Proposed Master Site Plan**

### 3.4 Site History Review

Based on the desktop study in the PSI, 134 Beecroft Road appears to have undergone renovations with a building extension, likely aged care housing, between 1961 and 1986 imagery. It is probable that any hazardous building materials would have been managed during the development and unlikely to persist within the building footprint. Limited evidence is available to infer that substantial filling of land has occurred and the long-term history of the local area is consistent with low-risk residential land use.

There may be some risk of potential contamination at 132 Beecroft Road associated with the removal of the sheds at the rear of the property. Improper demolition practices have the potential to have impacted the soils at the rear of the property and the area should be considered as a potential risk of contamination. Considering the age of the property, it is possible that some minor fill is present on at least a portion of the land, and beneath buildings, though is unlikely to be significant. Consideration should be given to further investigation of the building footprint areas in the event of demolition

Historical Title Search



## 4.0 Site Condition & Surrounding Environment

### 4.1 Environmental Setting

#### 4.1.1 Climatic Condition

Over the course of the year, the average monthly maximum temperatures vary by approximately 11°C, ranging from 17.5°C (July) to 28.6 °C (January). The Beecroft area experiences an average monthly precipitation range from 128.9mm in the wettest month (February) to 49.8mm in the driest month (September). The estimated total annual precipitation is approximately 982.0mm.

#### 4.1.2 Geology and Topography

The NSW office of Environment and Heritage eSPADE resource indicates that the Site resides on a Glenorie soil landscape. The Glenorie soil landscapes are erosional regions of Wianamatta Group Ashfield Shale and Bringelly Shale typically found North of the Parramatta River on the Hornsby Plateau in Baulkham Hills, Ku-ring-gai and Ryde. Ashfield Shale is comprised of laminate and dark grey shales, and Bringelly Shale consists of shale, calcareous claystone, laminate and fine to medium grained lithic-quartz sandstone.

The topography is characterised by low rolling and steep hills, local relief 50-120 m, slopes 5-20 %. Convex narrow ridges and hillcrests grade into moderately inclined side slopes with narrow concave drainage lines. Moderately inclined slopes are the dominant landform elements.

#### 4.1.3 Hydrogeology

The site exists within the Glenhaven Hydrogeological Landscape (HGL). Water infiltrates through the steep hills and flows downslope laterally along clay rich layers within the soil material and also vertically through the underlying shales within the matrix and preferentially along fractures and bedding plains. The lateral movement of subsurface waters may be impeded by a soil texture change (lithic gravels and sands to sandy clay) at the change in slope.

Groundwater flow in this HGL is unconfined along structures (bedding, joints, faults) in the fractured bedrock. Flow also occurs through connected pore spaces in sandstone units. Lateral flow occurs through colluvial and alluvial sediments on slopes and plains. Hydraulic conductivity and transmissivity are low to moderate.

Groundwater systems are local with short flow lengths and are loosely defined by topographic catchments. Water quality within these systems is fresh. Water table depths are intermediate to deep. Residence times are short to medium. These landscapes have a fast response time to changes in land management.



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## 5.0 Summary of Previous Investigations

### 5.1 CHEC PSI July 2025

A Preliminary Site Investigation was undertaken by CHEC (ref 1648-D250203) in July 2025. The investigation was limited to a desktop study and was intended to assess the site based on the potential for historical or current contaminating activity. The investigation identified areas of potential environmental concern that required further investigation including;

- Surfaces covered by present structures and pavement that would require assessment subsequent to demolition.
- The backyard of 132 requires further assessment due to the site history and potentially contaminated fill.
- The location where ACM was observed requires further investigation to confirm the contamination is limited to the ground surface prior to a removal strategy being recommended.
- Further investigation is required to establish whether the peeling lead paint has contaminated soils surrounding the house.



6.0 Conceptual Site Model

Based on the desktop study undertaken on the property, the following table presents a preliminary conceptual model of the potential risk posed by Site contamination

| Table 4: Preliminary Conceptual Site Model |                                                       |                                                                    |                                          |                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source                                     | Contaminant(s)                                        | Receptors                                                          | Exposure Pathway                         | Risk Assessment                                                                                                                                                                                                                                                                             |
| AEC 1: Backyard Fill in Lot F              | Heavy Metals. TRH/BTEX, PAHs, Pesticides and Asbestos | Flora/fauna, Future site occupants, civil and construction workers | Dermal absorption, Ingestion, Inhalation | Medium                                                                                                                                                                                                                                                                                      |
|                                            |                                                       |                                                                    |                                          | The PSI identified historical demolition in the backyard of Lot F that may have contributed to contaminated fill. Intrusive investigation was required to determine the likelihood of contamination and the extent, if present.                                                             |
| AEC 2: Surface Soils Adjacent to House     | Asbestos & Lead                                       |                                                                    |                                          | Medium                                                                                                                                                                                                                                                                                      |
|                                            |                                                       |                                                                    |                                          | Damaged fibro sheeting distributed in a localised area around the house on the ground surface was confirmed to contain asbestos in the PSI. Peeling paint was confirmed as containing lead. Soils sampling is required to determine if the extent of soil impact is limited to the surface. |
| AEC-3 Building Footprints                  | Heavy Metals. TRH/BTEX, PAHs, Pesticides and Asbestos |                                                                    |                                          | Low                                                                                                                                                                                                                                                                                         |
|                                            |                                                       |                                                                    |                                          | geotechnical survey recognised imported fill at various locations, which may include inaccessible soils beneath buildings. Inspection of building footprint areas and sampling, if required, is necessary to characterise the soil and determine potential for contamination.               |



## 7.0 Sampling, Analysis and Quality Plan

Based on the DQO outputs and the CSM in section 6.0, the following Sampling, Analysis and Quality Plan (SAQP) has been developed.

### 7.1 Soil Sampling

The sampling program adopted for this investigation was intended to provide supplementary information to the PSI based on the identified areas of concern. The two areas of concern within Lot F comprised of the turfed backyard area (AEC-1), located in the southern portion of the site, and the soils immediately adjacent to the house (AEC-2). The backyard investigation covered approximately 1000 m<sup>2</sup> (0.1 ha) and the area of concern next to the house covered approximately 100m<sup>2</sup> in the central portion of the Lot.

The distribution of fill within the back yard was unknown, therefore, it was considered appropriate to locate 10 test pits in a systematic pattern to avoid statistical bias. Considering building material was the most likely indicator of contamination, visual inspection data was relied on to determine the extent of contamination. An additional three locations were excavated adjacent to the house, including where surface ACM had been observed, below the peeling lead paint and one in the front yard area.

A total of 14 locations were excavated for visual inspection with six locations being subject to chemical analysis. The investigation was undertaken with the use of a 5t excavator, which extended test pits to the depth of natural ground and a maximum depth of 0.7m.

Sampling of soils was undertaken in accordance with methods provided by the Australian Standards Guide to the investigation and sampling of sites with potentially contaminated soils AS 4482.1 – 2005 (Non-volatile and semi volatile) and AS 4482.2 – 1999 (Volatile samples).

### 7.2 Groundwater Sampling

No receptors to groundwater have been identified on or nearby the site, therefore potential exposure to contaminated groundwater is unlikely, if present. Groundwater sampling and assessment was beyond the scope for this stage of investigation. Should soil contaminant concentrations be significant enough to potentially contribute to groundwater contamination, the requirement to assess groundwater will be reevaluated.

### 7.3 Soil Analysis

Soil samples from six representative location were submitted for laboratory analysis to characterise the chemical concentrations of fill associated with the areas of concern. Soil was analysed for Total Recoverable Hydrocarbons (TRH), BTEXN Compounds, Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine and Organophosphorus Pesticides (OCP & OPP), and eight priority heavy metals including arsenic, cadmium, chromium, copper, nickel, lead, zinc and mercury.

Visual inspection of asbestos and foreign material was conducted across the surface of the site and within each test pit. Field gravimetric analysis of 10l samples was undertaken in accordance with NEPM, 2013 with one location being submitted for representative calculation based on weight of retained material. Laboratory analysis of asbestos in soil was undertaken at eight (8) locations based on observation of ACM or other foreign material.



## 7.4 Quality Assurance

During Sampling the following measures were implemented to ensure data representativeness and precision:

- Samples were obtained with disposable nitrile gloves or stainless-Steel trowel that was decontaminated between samples.
- Soil was placed directly to 250ml glass container with Teflon lid seal.
- Containers were individually labelled and placed into a thermostatically controlled refrigerator set to 4°C for transport to a NATA laboratory under a chain of custody.

## 7.5 Tier 1 Assessment Criteria

Assessment criteria have been sourced from NEPM 2013 Residential B: Residential with minimal opportunities for soil access. Tier 1 screening criteria were referenced based on the most sensitive proposed land use for the Site, being high density residential.

For this assessment, Health Screening Levels (HSL) associated with soil vapour risk have assumed exposure depths of <1m in a clay type soil. Ecological Investigation Levels (EIL) for chromium are based on an observed clay content of greater than 10%. EILs for remaining contaminants were based on a pH of 6.5 and a Cation Exchange Capacity (CEC) of 20cmol/kg based on the typical values for the observed organic clay loams according to fact sheet provided by Soils West (2024).

Where criteria are provided for both site management and soil vapour risk, the more conservative criteria have been used for a tier 1 screening tool.

**Table -5: Ecological Screening Levels (ESL) and Management Limits (ML) – Hydrocarbon Fractions (mg/kg)**

| <b>ANALYTES<br/>(mg/kg)</b>              | <b>ESL (Fine) – Public<br/>Open Space</b> | <b>ML (Fine) – Public Open<br/>Space</b> |
|------------------------------------------|-------------------------------------------|------------------------------------------|
| <b>F1: C<sub>6</sub>-C<sub>10</sub></b>  | 180                                       | 800                                      |
| <b>F2: C<sub>10</sub>-C<sub>16</sub></b> | 120                                       | 1000                                     |
| <b>F3: C<sub>16</sub>-C<sub>34</sub></b> | 1300                                      | 5000                                     |
| <b>F4: C<sub>34</sub>-C<sub>40</sub></b> | 5600                                      | 10,000                                   |



**Table 6: NEPM Tier 1 Soil Assessment Criteria (mg/kg)**

|                       | ANALYTES                                 | HSL / HIL-B | ESL / EIL |
|-----------------------|------------------------------------------|-------------|-----------|
| Volatile Hydrocarbons | Benzene                                  | 0.7         | 65        |
|                       | Toluene                                  | 480         | 105       |
|                       | Ethylbenzene                             | 68*         | 125       |
|                       | Xylene                                   | 110         | 45        |
|                       | F1                                       | 50          | 180       |
|                       | F2                                       | 280         | 120       |
|                       | F3                                       | --          | 1300      |
|                       | F4                                       | --          | 5600      |
| HEAVY METALS          | Naphthalene                              | 5           | 170       |
|                       | Arsenic                                  | 500         | 100       |
|                       | Cadmium                                  | 140         | --        |
|                       | Chromium                                 | 500         | 400       |
|                       | Copper                                   | 30000       | 210       |
|                       | Lead                                     | 1200        | 1,100     |
|                       | Mercury                                  | 600         | --        |
|                       | Nickel                                   | 900         | 270       |
|                       | Zinc                                     | 60000       | 590       |
| OC Pesticides         | DDT+DDE+DDD                              | 10          | 180       |
|                       | Aldrin and dieldrin                      | 10          | --        |
|                       | Chlordane                                | 100         | --        |
|                       | Endosulfan                               | 460         | --        |
|                       | Endrin                                   | 20          | --        |
|                       | Heptachlor                               | 10          | --        |
|                       | HCB                                      | 20          | --        |
|                       | Methoxychlor                             | 550         | --        |
|                       | Mirex                                    | 20          | --        |
|                       | Toxaphene                                | 35          | --        |
|                       | Chlorpyrifos                             | 400         | --        |
| PAH                   | PCB's                                    | 2           | --        |
|                       | BaP TEQ                                  | 4           | --        |
|                       | BaP                                      | --          | 0.7       |
|                       | Total PAHs                               | 400         | --        |
| ACM                   | Bonded ACM (%)                           | 0.04        | --        |
|                       | Friable Asbestos/Asbestos Fines (%)      | 0.001       | --        |
|                       | Visible asbestos in surface soils (0.1m) | None        | --        |

\*Criteria not limiting and derived from soil saturation limit for clay.





## 8.0 Investigation Results

### 8.1 Sampling Observations

Sampling was undertaken on Thursday 18<sup>th</sup> September 2025. A 5-tonne excavator was used to extend 14 test pits to natural ground across the entire Site, which was encountered at a maximum depth of 0.6mbgl, though typically 0.4m or less.

Based on the visual inspection of 10 test pits in the backyard area, soils were observed to be an organic brown loamy clay fill throughout, though distinct areas were observed to contain foreign material, including building waste. Building material consisted of brick and plastic pipe within soils of TP2 and TP3. Fragments of Asbestos Containing Material (ACM) were observed within fill at TP2, TP3 and TP6.

Fragments of ACM were observed on the surface of TP11; however, no evidence of ACM fragments was observed in sub surface soils.

Fill material was underlain by either natural orange clay or grey shales, occurring at depths between 0.3 – 0.5mbgl. Refer to **Figure 2** for sampling locations.

No odour or staining was present, and no land subsidence was observed.



**Image 1-** TP3 Soils



**Image 2-** TP2 Soils



**Image 3** - ACM Observed at TP6



**Image 4** - Typical soil profile (TP14)

### 8.2 Soil Analytical Results

#### 8.2.1 Fill soils

Concentrations of metals summarised by Table 7 below indicate that all soil samples were significantly less than the NEPM HIL B and adopted EIL, therefore compliant with site acceptance criteria.

ACM was visually identified in locations TP2, TP3 and TP6; however, laboratory analysis did not identify AF/FA in these locations. Gravimetric field analysis measured 0.09mg/kg of ACM in TP2, which was typical of the amounts found in TP3 and TP6, exceeded the NEPM land use criteria of 0.04%. Laboratory analysis at additional locations TP1, TP8, TP11, TP12 TP13 did not detect asbestos in the form of ACM or AF/FA.



**Table 7 – Analytical Results of Heavy Metals (mg/kg) and Asbestos (w/w%) in Fill Soil**

| Sample ID | As  | Cd    | Cr  | Cu     | Pb    | Hg    | Ni    | Zn     | FA/AF  | ACM     |
|-----------|-----|-------|-----|--------|-------|-------|-------|--------|--------|---------|
| TP1       | 2.5 | < 0.4 | 8.6 | < 5    | 5.3   | < 0.1 | < 5   | < 5    | ND     | ND      |
| TP2       | 2.3 | < 0.4 | 6.1 | < 5    | 8.3   | < 0.1 | < 5   | < 5    | ND     | 0.09    |
| TP3       | --  | --    | --  | --     | --    | --    | --    | --     | ND     | Visible |
| TP6       | < 2 | < 0.4 | < 5 | 8.8    | 8.5   | < 0.1 | < 5   | 22     | ND     | Visible |
| TP8       | 4.1 | < 0.4 | 6.5 | 9.9    | 36    | 0.2   | < 5   | 41     | ND     | ND      |
| TP11      | 4.4 | 5.1   | 5.9 | 130    | 240   | < 0.1 | 15    | 880    | ND     | Surface |
| TP12      | < 2 | < 0.4 | < 5 | 10     | 13    | < 0.1 | < 5   | 34     | ND     | ND      |
| TP13      | --  | --    | --  | --     | --    | --    | --    | --     | ND     | ND      |
| Max       | 4.4 | 5.1   | 8.6 | 130    | 240   | 0.2   | 15    | 880    | ND     | 0.09    |
| HIL       | 500 | 150   | 500 | 30,000 | 1,200 | 120   | 1,200 | 60,000 | 0.001% | 0.04%   |
| EIL       | 160 | --    | 310 | 300    | 1800  | --    | 460   | 1100   | --     | --0     |

A minor detection of F3 hydrocarbon was reported in TP11, measuring a concentration of 160mg/kg. The concentration is significantly less than the NEPM management limit of 3500mg/kg. One detection of Organochlorine Pesticide (OCP) in the form of DDE was reported in TP6, at a concentration of 0.11mg/kg, significantly less than the 10mg/kg HIL B criteria.

All other organic contaminants were reported less than the laboratory limit of reporting, and therefore compliant with Residential B land use scenario and the adopted Ecological Screening Levels.

### 8.3 Quality Control

To ensure sampling data is representative of the soils under investigation, all sampling methods were consistent with CHEC's standard soil sampling procedures (QFM6-4), which includes quality control measures that are implemented to measure data reliability and precision, and to ensure handling and transport procedures were of an adequate standard. The following sections evaluate the data quality indicators established for the project.

#### 8.3.1 Duplicate and triplicate Sample results

AS4482.1-2005 requires that a duplicate sample be collected for at least every 20 primary samples obtained. Duplicates were not included due to the investigation objectives aiming to provide preliminary data and primarily reliant on field observations to identify the primary contaminant, being asbestos in building waste.

Notwithstanding the outlier at TP11, the concentrations of heavy metals display very low standard error and all results are significantly less than land use criteria. Organic contaminants are generally less than detection limits, limiting the value of duplicate comparison for those analytes. The consistency of the available data and negligible measured concentrations suggests, therefore, that the omission of duplicate samples to evaluate the precision of laboratory results is not significant with respect to making a decision on land use suitability.

#### 8.3.2 Spike/Blanks

A trip spike and blank were omitted from the sampling event as volatile contaminants were not considered a contaminant of concern for this Site. All sampling and storage methods were consistent with the standard procedures employed by CHEC, which have been demonstrated on numerous occasions to provide representative data.



## 9.0 Discussion

The investigation has considered all relevant historical and anecdotal information and, based on the outcomes of the desktop study and Site inspection, CHEC developed and implemented a sampling strategy to provide a high level of confidence for determination of land use suitability. Quality control indicators suggested that the samples were representative of the soils under investigation.

Three Areas of Environmental Concern (AECs) were identified by the CSM and a representative sampling plan was implemented to address potential contamination concerns from the AECs.

The PSI identified historical demolition to have potentially impacted the backyard area of the site. The area was designated AEC-1 and subjected to visual inspection of 10 test pits. Foreign material was identified in four locations, identified as TP2, TP3, TP6 and TP8, which were then subjected to sampling for laboratory analysis. Laboratory analysis indicated that the samples did not contain asbestos fines or friable asbestos.

Field gravimetric analysis at TP2 resulted in land use exceedance for bonded ACM. The location was typical of observations at both TP3 and TP6 also and the result was, therefore, considered representative of all three locations. The fill type was also consistent at TP8. No ACM was observed in that test pit; however, it is not unreasonable to assume that despite the absence of ACM in TP8, the fill type is likely to contain ACM at some concentration.

The soils in the back yard that contain foreign material, including ACM, will require remediation to make the site suitable for the intended land use.

The PSI identified the potential for hazardous building material in the form of asbestos and lead paint to have contaminated surrounding surface soils of the residential structure on Lot F. The area was designated as AEC-2, and subject to visual inspection of four test pits. Broken ACM sheeting was observed on the surface in the vicinity of TP11; however, observations of the test pit indicated the ACM did not extend into subsurface fill.

Laboratory analysis of fill soils at TP11 did not detect asbestos in any form, suggesting the distribution of ACM was limited to the surface and had not been weathered or damaged to produce fibres. The observation of broken wall sheets on the adjacent structure provides additional evidence to support the finding that ACM was limited to surface impact.

Surface samples obtained from TP12, were not measured to contain significant concentrations of lead, indicating that lead paint had not impacted surrounding surface soils.

Based off the geotechnical report, the PSI identified the potential for imported fill materials to reside beneath the existing structures. This area was designated as AEC-3. Demolition had not occurred at the time of this investigation, and as such, this concern remains a data gap.

The confirmation of asbestos in soils within AEC-1, indicate that the source-pathway-receptor linkage identified in the CSM, is now complete. As a result, receptors are likely to be exposed to the contaminant during construction work and occupation. The risk assessment of AEC-1 is increased from medium to high risk, and remedial measures are required to make the site suitable.

Bonded asbestos in the form of fibre cement fragments on the surface at TP11 will also require removal prior to demolition to mitigate the source. The absence of lead and asbestos in subsurface soil in AEC-2, suggests there is no source – receptor pathway from fill soils generally and do not require remediation



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The area of fill soil requiring remediation may be limited to the 750m<sup>2</sup> that included foreign material observations within the approximately 1200m<sup>2</sup> back yard. The average fill depth was noted to be approximately 0.4m, resulting in a potential 300m<sup>3</sup> of contaminated fill. Should the fill be disposed off-site, it will require classification as Special Waste-Asbestos.

Subsequent to remedial work, validation of remaining soils will be required to demonstrate land use suitability. The remedial method and validation requirement shall be discussed in a Remediation Action Plan (RAP).

### 9.1 Data Gaps

A data gap exists where observation and chemical analysis were not able to be undertaken on land beneath the buildings, and the retained soils in garden beds, on both Lot C and Lot F. Once demolition occurs, inspection and sampling of the building footprints in accordance with the NSW EPA, 2022 should be undertaken to demonstrate land use suitability. Inspection of soils behind retaining walls shall include sampling where foreign materials are observed.

An asbestos clearance certification is required in accordance NSW Safework Code of Practice – How to Safely Remove Asbestos, 2022, should occur pre demolition.



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## 10.0 Conclusions

This investigation has been provided with adequate information to determine the Site history and likely sources of contamination. Based on the data quality, the sampling program is considered to have obtained sufficient and representative analytical data to determine the suitability of the Site for its intended land use. The sampling strategy was considered adequate for the stage of investigation and the conditions of the site under investigation.

Based on the available data and the information provided, the Site identified as 132-134 Beecroft Road, Beecroft **can be made suitable for its intended land use as HIL B Residential - minimal opportunities for soil access**. A Remediation Action Plan shall be developed to address the areas of contamination discussed with this report and include provision to obtain the additional data from the recommended data gap investigations.

It is recommended that prior to commencement of the demolition, consultation with the contaminated land consultant be undertaken to avoid the potential of cross contamination and/or destruction of bonded asbestos in soils.

Should any other land use be considered, the data and findings of this investigation should be reviewed in the context of any potential exposure scenarios.



## 11.0 Limitations

The sole purpose of this report and the associated services performed by Compliance Health & Environmental Consulting Pty Ltd is to fulfil the scope outlined by Thompson Healthcare No. 2 Holdings Pty Ltd C/- Northside Construction. This report is intended to satisfy the requirements of a Site Investigation as defined by National Environment Protection (Assessment of Site Contamination) Amendment Measure (NEPM), 2013. Compliance Health & Environmental Consulting Pty Ltd has made every effort to assess the Site in a professional manner adhering to the technical standards expected from a contaminated land consultant and report the representative condition at the time of the assessment.

Compliance Health & Environmental Consulting Pty Ltd derived the information in this report from a number of sources which included correspondence regarding the proposal, examination of records in the public domain, previous investigations, anecdotal information regarding the site and the project, and field explorations conducted on the dates indicated. The passage of time, manifestation of latent conditions or impacts of future events may require further examination /exploration of the site and subsequent data analyses, together with a re-evaluation of the findings, observations and conclusions expressed in this report.

In preparing this report, Compliance Health & Environmental Consulting Pty Ltd may have relied upon and presumed accurate certain information (or absence thereof) relative to the site. Except as otherwise stated in the report, Compliance Health & Environmental Consulting Pty Ltd has not attempted to verify the accuracy of completeness of any such information (including for example survey data supplied by others). The findings, observations and conclusions expressed by Compliance Health & Environmental Consulting Pty Ltd in this report are not, and should not be considered an opinion concerning the completeness and accuracy of information supplied by others.

No warranty or guarantee, whether express or implied, is made with respect to the data reported or to the findings, observations and conclusions expressed in this report. Further, such data, findings and conclusions are based solely upon site conditions, information and drawings supplied by the Client and legislation etc. in existence at the time of the investigation. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between Compliance Health & Environmental Consulting Pty Ltd and the Client. Compliance Health & Environmental Consulting Pty Ltd accepts no liability or responsibility whatsoever for or in respect of any use of or reliance upon this report by any third party.



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## Figure 1 – Site Location





|                                                 |                       |                 |                    |  |
|-------------------------------------------------|-----------------------|-----------------|--------------------|--|
| Title<br>Site Location                          |                       |                 |                    |  |
| Site Address<br>132 & 134 Beecroft Rd, Beecroft | Project No.<br>CH1648 | Figure No.<br>1 | Date<br>04/08/25   |  |
| Client<br>Northside Constructions               | Scale<br>NTS          | Compiled<br>AM  | Revision<br>Rev. 1 |  |





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## Figure 2 – Site Survey



♦ DENOTES DOOR

1. THE POSITION OF IMPROVEMENTS TO EQUIVATES ARE DISAGREEMENT ONLY
2. POSITION OF ROOF JOISTS ARE DISAGREEMENT ONLY (AND TO SCALE)
3. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. RELEVANT AUTHORITIES ARE TO BE NOTIFIED PRIOR TO ANY DEVELOPMENT
4. ALL DIMENSIONS ARE BY TITLE ONLY & SUBJECT TO FINAL SURVEY
5. CONTOURS ARE INDICATIVE OF GROUND FORM ONLY, ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
6. NO INVESTIGATIONS HAVE BEEN MADE OF BUILDING RESTRICTIONS WHICH MAY PERTAIN TO THIS LAND
7. CONTOUR INTERVAL, 1.0m MINIMUM 1.0m MAXIMUM
8. ORIGIN OF LEVELS, ISM 93/498 REF. 138 506
9. THE SPREAD AND HEIGHT OF TREES SHOWN ARE INDICATIVE ONLY AND CANNOT BE SHOWN ACTIVELY WITHOUT AGRICULTURAL DETAILLED SURVEY.
10. BEANS SHOWN ARE RELATED TO MARKET AREA

REFERENCE:  
10089/18  
10089/18 DET4.DWG  
REG'D SURVEYOR

DATE: 20/06/2025  
SCALE: 1:200  
DATUM: A.H.D  
SITE AREA: AS SHOWN  
SHEET 1 OF 1 SHEETS

David Stutchbury  
DAVID STUTCHBURY  
REGISTERED SURVEYOR  
IDENTIFICATION No: SU00205

CLIENT: DJ THOMPSON PTY LTD  
PROJECT: LEVEL & DETAIL SURVEY  
LOT F D.P.15298 & LOT C D.P.317843  
No.132-134 BEECROFT ROAD, BEECROFT.  
TGA: HORNSBY





### Figure 3 - Site Layout with Sample Location





- Visual + Lab Sample (Fill Depth)
- ★ Visual (Fill Depth)
- Site Boundary
- Fill Remediation



|                                                                                       |                                               |                       |                    |                    |
|---------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------|--------------------|--------------------|
|  | Title<br>Site Layout With Sample Locations    |                       |                    |                    |
|                                                                                       | Site Address<br>132-134 Beecroft Rd, Beecroft | Project No.<br>CH1642 | Figure No.<br>3    | Date<br>01/10/2025 |
| Client<br>Thompson Health Care                                                        | Scale<br>NA                                   | Compiled<br>RG        | Revision<br>Rev. 1 |                    |





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## Appendix A – Data Summary Tables

### Analytical Summary of Contaminants in all Soil Samples(mg/kg)

| Sample ID  | Depth (m) | Benzene | Toluene | Ethylbenzene | Xylene | F1   | F2   | F3    | F4     | Naph  | BaP   | BaP TEQ | Total PAH | OPP    | OCP    | As  | Cd    | Cr  | Cu     | Pb    | Hg    | Ni    | Zn     | FA/AF (%w/w) | ACM (%w/w) |
|------------|-----------|---------|---------|--------------|--------|------|------|-------|--------|-------|-------|---------|-----------|--------|--------|-----|-------|-----|--------|-------|-------|-------|--------|--------------|------------|
| TP1-1 (B)  | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | < 100 | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | < 0.05 | 2.5 | < 0.4 | 8.6 | < 5    | 5.3   | < 0.1 | < 5   | < 5    | ND           | ND         |
| TP2-1 (B)  | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | < 100 | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | < 0.05 | 2.3 | < 0.4 | 6.1 | < 5    | 8.3   | < 0.1 | < 5   | < 5    | ND           | 0.09       |
| TP3-1 (B)  | 0.15      | --      | --      | --           | --     | --   | --   | --    | --     | --    | --    | --      | --        | --     | --     | --  | --    | --  | --     | --    | --    | --    | --     | ND           | Visible    |
| TP6-1 (B)  | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | < 100 | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | 0.11   | < 2 | < 0.4 | < 5 | 8.8    | 8.5   | < 0.1 | < 5   | 22     | ND           | Visible    |
| TP8-1 (B)  | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | < 100 | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | < 0.05 | 4.1 | < 0.4 | 6.5 | 9.9    | 36    | 0.2   | < 5   | 41     | ND           | ND         |
| TP11-1 (H) | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | 160   | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | < 0.05 | 4.4 | 5.1   | 5.9 | 130    | 240   | < 0.1 | 15    | 880    | ND           | Surface    |
| TP12-1 (H) | 0.15      | < 0.1   | < 0.1   | < 0.1        | < 0.1  | < 20 | < 50 | < 100 | < 100  | < 0.5 | < 0.5 | ND      | < 0.5     | < 0.05 | < 0.05 | < 2 | < 0.4 | < 5 | 10     | 13    | < 0.1 | < 5   | 34     | ND           | ND         |
| TP13-1 (H) | 0.15      | --      | --      | --           | --     | --   | --   | --    | --     | --    | --    | --      | --        | --     | --     | --  | --    | --  | --     | --    | --    | --    | --     | ND           | ND         |
| n          |           | 6       | 6       | 6            | 6      | 6    | 6    | 6     | 6      | 6     | 6     | 6       | 6         | 6      | 6      | 6   | 6     | 6   | 6      | 6     | 6     | 6     | 6      | 8            | 8          |
| Detections |           | 0       | 0       | 0            | 0      | 0    | 0    | 1     | 0      | 0     | 0     | 0       | 0         | 0      | 1      | 4   | 1     | 4   | 4      | 6     | 1     | 1     | 4      | 0            | 1          |
| Max        |           | 0       | 0       | 0            | 0      | 0    | 0    | 160   | 0      | 0     | 0     | 0       | 0         | 0      | 0.11   | 4.4 | 5.1   | 8.6 | 130    | 240   | 0.2   | 15    | 880    | ND           | 0.09       |
| Average    |           | --      | --      | --           | --     | --   | --   | --    | --     | --    | --    | --      | --        | --     | --     | 3   | 5     | 7   | 40     | 52    | 0     | 15    | 244    | --           | --         |
| 95% UCL    |           | --      | --      | --           | --     | --   | --   | --    | --     | --    | --    | --      | --        | --     | --     | --  | --    | --  | --     | --    | --    | --    | --     | --           | --         |
| Std Dev    |           | --      | --      | --           | --     | --   | --   | --    | --     | --    | --    | --      | --        | --     | --     | --  | --    | --  | --     | --    | --    | --    | --     | --           | --         |
| EIL/ESL    |           | 65      | 105     | 125          | 45     | 180  | 120  | 1300  | 5600   | 170   | 0.7   | --      | --        | --     | 640    | 160 | --    | 310 | 300    | 1800  | --    | 460   | 1100   | --           | --         |
| HSL/HIL -B |           | 0.7     | 480     | 68*          | 110    | 50   | 280  | 3,500 | 10,000 | 5*    | --    | 4       | 400       | --     | 10     | 500 | 150   | 500 | 30,000 | 1,200 | 120   | 1,200 | 60,000 | 0.001%       | 0.04%      |

ND=Not Detected Visibly or Above Limit of Reporting \*Criteria not limiting and derived from soil saturation concentration





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## Appendix B - NATA Certified Laboratory Reports



Eurofins | Environment Testing AEN 50 005 085 52

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|                     |  |             |  |                                         |  |                                         |  |                 |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
|---------------------|--|-------------|--|-----------------------------------------|--|-----------------------------------------|--|-----------------|--|-----------------|--|-------------|--|----------------|--|-------------------|--|-------------------|--|--------------------------------------|--|
| Company             |  | CEC         |  | Project Name                            |  | 1698                                    |  | Project Manager |  | D. Carter       |  | Sample(s)   |  | Handed over by |  | Email for Invoice |  | Email for Results |  | Required Turnaround Time (TAT)       |  |
| Address             |  |             |  | Project Name                            |  | DECEMBER                                |  | EDD Format      |  | ES&L, EQLS, etc |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Contact Name        |  |             |  | Project Name                            |  |                                         |  | EDD Format      |  |                 |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Phone No            |  |             |  | Project Name                            |  |                                         |  | EDD Format      |  |                 |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Special Directions  |  |             |  | Project Name                            |  |                                         |  | EDD Format      |  |                 |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Purchase Order      |  |             |  | Project Name                            |  |                                         |  | EDD Format      |  |                 |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Quote ID No         |  |             |  | Project Name                            |  |                                         |  | EDD Format      |  |                 |  |             |  |                |  |                   |  |                   |  | Default will be 5 days if not ticked |  |
| Client Sample ID    |  | 10/4        |  | Matrix                                  |  | Solid (S)                               |  | Water (W)       |  |                 |  |             |  |                |  |                   |  |                   |  | Sample Comments                      |  |
| 1                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  | 1 Dangerous Goods Hazard Warning     |  |
| 2                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 3                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 4                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 5                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 6                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 7                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 8                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 9                   |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| 10                  |  | TPP-1       |  | 10/4                                    |  | X                                       |  | X               |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| Total Counts        |  |             |  |                                         |  |                                         |  |                 |  |                 |  |             |  |                |  |                   |  |                   |  |                                      |  |
| Method of Shipment  |  | Counter (#) |  | Standard Delivered                      |  | Postal                                  |  | Name            |  | Signature       |  | Date        |  | Time           |  | Temperature       |  | Report No         |  |                                      |  |
| Laboratory Use Only |  | Received By |  | 5/4/15                                  |  | SYD   BNE   MEL   PER   ADL   NTL   DRW |  | Signature       |  | Date            |  | Time        |  | Temperature    |  | Report No         |  |                   |  |                                      |  |
| Received By         |  | 5/4/15      |  | SYD   BNE   MEL   PER   ADL   NTL   DRW |  | Signature                               |  | Date            |  | Time            |  | Temperature |  | Report No      |  |                   |  |                   |  |                                      |  |
| Received By         |  | 5/4/15      |  | SYD   BNE   MEL   PER   ADL   NTL   DRW |  | Signature                               |  | Date            |  | Time            |  | Temperature |  | Report No      |  |                   |  |                   |  |                                      |  |

Eurofirs Environment Testing Australia Pty Ltd    [EnviroSales@eurofirs.com](mailto:EnviroSales@eurofirs.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.

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Compliance Health & Environmental Consulting P/L  
PO Box 275  
Gosford  
NSW 2250



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: **RESULTS - ALL SRAS HERE ONLY - NO INVOICES**

Report **1270577-S**  
Project name **BEECROFT**  
Project ID **1648**  
Received Date **Sep 19, 2025**

| Client Sample ID                                   |     |       | TP1-1         | TP2-1         | TP6-1         | TP8-1         |
|----------------------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                                      |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                                |     |       | S25-Se0062777 | S25-Se0062778 | S25-Se0062779 | S25-Se0062780 |
| Date Sampled                                       |     |       | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                                     | LOR | Unit  |               |               |               |               |
| <b>Total Recoverable Hydrocarbons</b>              |     |       |               |               |               |               |
| TRH C6-C9                                          | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C10-C14                                        | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C15-C28                                        | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C29-C36                                        | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C10-C36 (Total)                                | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH C6-C10                                         | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>           | 20  | mg/kg | < 20          | < 20          | < 20          | < 20          |
| TRH >C10-C16                                       | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| TRH >C10-C16 less Naphthalene (F2) <sup>*N01</sup> | 50  | mg/kg | < 50          | < 50          | < 50          | < 50          |
| Naphthalene <sup>N02</sup>                         | 0.5 | mg/kg | < 0.5         | < 0.5         | < 0.5         | < 0.5         |
| 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         |
| <b>BTEX</b>                                        |     |       |               |               |               |               |
| 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   | %     | 73            | 72            | 71            | 75            |
| <b>Polycyclic Aromatic Hydrocarbons</b>            |     |       |               |               |               |               |
| 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 <sup>N07</sup>              | 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         |

| Client Sample ID                        |      |       | TP1-1         | TP2-1         | TP6-1         | TP8-1         |
|-----------------------------------------|------|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                           |      |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                     |      |       | S25-Se0062777 | S25-Se0062778 | S25-Se0062779 | S25-Se0062780 |
| Date Sampled                            |      |       | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                          | LOR  | Unit  |               |               |               |               |
| <b>Polycyclic Aromatic Hydrocarbons</b> |      |       |               |               |               |               |
| 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    | %     | 56            | 58            | 68            | 56            |
| p-Terphenyl-d14 (surr.)                 | 1    | %     | 57            | 56            | 65            | 56            |
| <b>Organochlorine Pesticides</b>        |      |       |               |               |               |               |
| Chlordanes - Total                      | 0.1  | mg/kg | < 0.1         | -             | < 0.1         | -             |
| 4,4'-DDD                                | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| 4,4'-DDE                                | 0.05 | mg/kg | < 0.05        | -             | 0.11          | -             |
| 4,4'-DDT                                | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| α-HCH                                   | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Aldrin                                  | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| β-HCH                                   | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| δ-HCH                                   | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Dieldrin                                | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endosulfan I                            | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endosulfan II                           | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endosulfan sulphate                     | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endrin                                  | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endrin aldehyde                         | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| Endrin ketone                           | 0.05 | mg/kg | < 0.05        | -             | < 0.05        | -             |
| γ-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        | -             | 0.11          | -             |
| Vic EPA IWRG 621 OCP (Total)*           | 0.1  | mg/kg | < 0.1         | -             | 0.11          | -             |
| Vic EPA IWRG 621 Other OCP (Total)*     | 0.1  | mg/kg | < 0.1         | -             | < 0.1         | -             |
| Dibutylchlorodate (surr.)               | 1    | %     | INT           | -             | 61            | -             |
| Tetrachloro-m-xylene (surr.)            | 1    | %     | 60            | -             | 75            | -             |
| <b>Organophosphorus Pesticides</b>      |      |       |               |               |               |               |
| 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         | -             |



| Client Sample ID                   |     |       | TP1-1         | TP2-1         | TP6-1         | TP8-1         |
|------------------------------------|-----|-------|---------------|---------------|---------------|---------------|
| Sample Matrix                      |     |       | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.                |     |       | S25-Se0062777 | S25-Se0062778 | S25-Se0062779 | S25-Se0062780 |
| Date Sampled                       |     |       | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                     | LOR | Unit  |               |               |               |               |
| <b>Organophosphorus Pesticides</b> |     |       |               |               |               |               |
| 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         | -             |
| 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   | %     | INT           | -             | 52            | -             |
| <b>Heavy Metals</b>                |     |       |               |               |               |               |
| Arsenic                            | 2   | mg/kg | 24            | 12            | 9.9           | 7.8           |
| Cadmium                            | 0.4 | mg/kg | 0.7           | 1.1           | 0.5           | < 0.4         |
| Chromium                           | 5   | mg/kg | 15            | 20            | 28            | 13            |
| Copper                             | 5   | mg/kg | 29            | 57            | 29            | 15            |
| Lead                               | 5   | mg/kg | 170           | 210           | 120           | 21            |
| Mercury                            | 0.1 | mg/kg | < 0.1         | 0.3           | 0.1           | < 0.1         |
| Nickel                             | 5   | mg/kg | 9.6           | 11            | 7.5           | < 5           |
| Zinc                               | 5   | mg/kg | 530           | 790           | 220           | 15            |
| <b>Sample Properties</b>           |     |       |               |               |               |               |
| % Moisture                         | 1   | %     | 18            | 28            | 26            | 27            |

| Client Sample ID                      |     |       | TP11-1        | TP12-1        |
|---------------------------------------|-----|-------|---------------|---------------|
| Sample Matrix                         |     |       | Soil          | Soil          |
| Eurofins Sample No.                   |     |       | S25-Se0062781 | S25-Se0062782 |
| Date Sampled                          |     |       | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                        | LOR | Unit  |               |               |
| <b>Total Recoverable Hydrocarbons</b> |     |       |               |               |
| TRH C6-C9                             | 20  | mg/kg | < 20          | < 20          |
| TRH C10-C14                           | 20  | mg/kg | < 20          | < 20          |
| TRH C15-C28                           | 50  | mg/kg | 77            | < 50          |
| TRH C29-C36                           | 50  | mg/kg | 100           | < 50          |
| TRH C10-C36 (Total)                   | 50  | mg/kg | 177           | < 50          |
| TRH C6-C10                            | 20  | mg/kg | < 20          | < 20          |

| Client Sample ID                                   |      |       | TP11-1        | TP12-1        |
|----------------------------------------------------|------|-------|---------------|---------------|
| Sample Matrix                                      |      |       | Soil          | Soil          |
| Eurofins Sample No.                                |      |       | S25-Se0062781 | S25-Se0062782 |
| Date Sampled                                       |      |       | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                                     | LOR  | Unit  |               |               |
| <b>Total Recoverable Hydrocarbons</b>              |      |       |               |               |
| TRH C6-C10 less BTEX (F1) <sup>N04</sup>           | 20   | mg/kg | < 20          | < 20          |
| TRH >C10-C16                                       | 50   | mg/kg | < 50          | < 50          |
| TRH >C10-C16 less Naphthalene (F2) <sup>*N01</sup> | 50   | mg/kg | < 50          | < 50          |
| Naphthalene <sup>N02</sup>                         | 0.5  | mg/kg | < 0.5         | < 0.5         |
| TRH >C16-C34                                       | 100  | mg/kg | 160           | < 100         |
| TRH >C34-C40                                       | 100  | mg/kg | < 100         | < 100         |
| TRH >C10-C40 (total)*                              | 100  | mg/kg | 160           | < 100         |
| <b>BTEX</b>                                        |      |       |               |               |
| 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    | %     | 78            | 84            |
| <b>Polycyclic Aromatic Hydrocarbons</b>            |      |       |               |               |
| 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 <sup>N07</sup>              | 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    | %     | 72            | 61            |
| p-Terphenyl-d14 (surr.)                            | 1    | %     | 65            | 58            |
| <b>Organochlorine Pesticides</b>                   |      |       |               |               |
| 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        | -             |

| Client Sample ID                    |      |       | TP11-1        | TP12-1        |
|-------------------------------------|------|-------|---------------|---------------|
| Sample Matrix                       |      |       | Soil          | Soil          |
| Eurofins Sample No.                 |      |       | S25-Se0062781 | S25-Se0062782 |
| Date Sampled                        |      |       | Sep 18, 2025  | Sep 18, 2025  |
| Test/Reference                      | LOR  | Unit  |               |               |
| <b>Organochlorine Pesticides</b>    |      |       |               |               |
| Endosulfan II                       | 0.05 | mg/kg | < 0.05        | -             |
| Endosulfan sulphate                 | 0.05 | mg/kg | < 0.05        | -             |
| Endrin                              | 0.05 | mg/kg | < 0.05        | -             |
| Endrin aldehyde                     | 0.05 | mg/kg | < 0.05        | -             |
| Endrin ketone                       | 0.05 | mg/kg | < 0.05        | -             |
| g-HCH (Lindane)                     | 0.05 | mg/kg | < 0.05        | -             |
| Heptachlor                          | 0.05 | mg/kg | < 0.05        | -             |
| Heptachlor epoxide                  | 0.05 | mg/kg | < 0.05        | -             |
| Hexachlorobenzene                   | 0.05 | mg/kg | < 0.05        | -             |
| Methoxychlor                        | 0.05 | mg/kg | < 0.05        | -             |
| Toxaphene                           | 0.5  | mg/kg | < 0.5         | -             |
| Aldrin and Dieldrin (Total)*        | 0.05 | mg/kg | < 0.05        | -             |
| DDT + DDE + DDD (Total)*            | 0.05 | mg/kg | < 0.05        | -             |
| Vic EPA IWRG 621 OCP (Total)*       | 0.1  | mg/kg | < 0.1         | -             |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1  | mg/kg | < 0.1         | -             |
| Dibutylchlorendate (surr.)          | 1    | %     | 76            | -             |
| Tetrachloro-m-xylene (surr.)        | 1    | %     | 71            | -             |
| <b>Organophosphorus Pesticides</b>  |      |       |               |               |
| 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         | -             |
| 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         | -             |

|                                    |     |       |                      |                      |
|------------------------------------|-----|-------|----------------------|----------------------|
| <b>Client Sample ID</b>            |     |       | <b>TP11-1</b>        | <b>TP12-1</b>        |
| <b>Sample Matrix</b>               |     |       | <b>Soil</b>          | <b>Soil</b>          |
| <b>Eurofins Sample No.</b>         |     |       | <b>S25-Se0062781</b> | <b>S25-Se0062782</b> |
| <b>Date Sampled</b>                |     |       | <b>Sep 18, 2025</b>  | <b>Sep 18, 2025</b>  |
| Test/Reference                     | LOR | Unit  |                      |                      |
| <b>Organophosphorus Pesticides</b> |     |       |                      |                      |
| Tetrachlorvinphos                  | 0.2 | mg/kg | < 0.2                | -                    |
| Tokuthion                          | 0.2 | mg/kg | < 0.2                | -                    |
| Trichloronate                      | 0.2 | mg/kg | < 0.2                | -                    |
| Triphenylphosphate (surr.)         | 1   | %     | 66                   | -                    |
| <b>Heavy Metals</b>                |     |       |                      |                      |
| Arsenic                            | 2   | mg/kg | 9.3                  | 15                   |
| Cadmium                            | 0.4 | mg/kg | < 0.4                | < 0.4                |
| Chromium                           | 5   | mg/kg | 12                   | 21                   |
| Copper                             | 5   | mg/kg | 26                   | 22                   |
| Lead                               | 5   | mg/kg | 200                  | 100                  |
| Mercury                            | 0.1 | mg/kg | 0.2                  | < 0.1                |
| Nickel                             | 5   | mg/kg | 6.1                  | 7.6                  |
| Zinc                               | 5   | mg/kg | 110                  | 120                  |
| <b>Sample Properties</b>           |     |       |                      |                      |
| % Moisture                         | 1   | %     | 18                   | 22                   |



## 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<br>- Method: LTM-ORG-2010 TRH C6-C40    | Sydney       | Sep 19, 2025 | 14 Days      |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions<br>- Method: LTM-ORG-2010 TRH C6-C40    | Sydney       | Sep 19, 2025 | 14 Days      |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions<br>- Method: LTM-ORG-2010 TRH C6-C40    | Sydney       | Sep 19, 2025 | 14 Days      |
| BTEX<br>- Method: LTM-ORG-2010 BTEX and Volatile TRH                                         | Sydney       | Sep 19, 2025 | 14 Days      |
| Polycyclic Aromatic Hydrocarbons<br>- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Sydney       | Sep 19, 2025 | 14 Days      |
| Metals M8<br>- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS            | Sydney       | Sep 19, 2025 | 28 Days      |
| Organochlorine Pesticides<br>- Method: LTM-ORG-2220 OCP & PCB in Soil and Water              | Sydney       | Sep 19, 2025 | 14 Days      |
| Organophosphorus Pesticides<br>- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS   | Sydney       | Sep 19, 2025 | 14 Days      |
| % Moisture<br>- Method: LTM-GEN-7080 Moisture                                                | Sydney       | Sep 19, 2025 | 14 Days      |

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Site# 2370 & 2554

**Company Name:** Compliance Health & Environmental Consulting P/L  
**Address:** PO Box 275  
Gosford  
NSW 2250

**Order No.:**  
**Report #:** 1270577  
**Phone:** 02 4304 0091  
**Fax:**

**Received:** Sep 19, 2025 2:45 PM  
**Due:** Sep 26, 2025  
**Priority:** 5 Day  
**Contact Name:** RESULTS - ALL SRAS HERE ONLY - NO INVOICES

**Project Name:** BEECROFT  
**Project ID:** 1648

**Eurofins Analytical Services Manager : Bonnie Pu**

| Sample Detail                                |           |              |               |        |               | Eurofins Suite B7                               |   |
|----------------------------------------------|-----------|--------------|---------------|--------|---------------|-------------------------------------------------|---|
|                                              |           |              |               |        |               | Eurofins Suite B10:<br>BTEX/TH/PAH/OC/POP/PP/M8 |   |
|                                              |           |              |               |        |               | Moisture Set                                    |   |
|                                              |           |              |               |        |               |                                                 |   |
| Sydney Laboratory - NATA # 1261 Site # 18217 |           |              |               |        |               | X                                               | X |
| External Laboratory                          |           |              |               |        |               |                                                 |   |
| No                                           | Sample ID | Sample Date  | Sampling Time | Matrix | LAB ID        |                                                 |   |
| 1                                            | TP1-1     | Sep 18, 2025 |               | Soil   | S25-Se0062777 | X                                               | X |
| 2                                            | TP2-1     | Sep 18, 2025 |               | Soil   | S25-Se0062778 | X                                               | X |
| 3                                            | TP6-1     | Sep 18, 2025 |               | Soil   | S25-Se0062779 | X                                               | X |
| 4                                            | TP8-1     | Sep 18, 2025 |               | Soil   | S25-Se0062780 | X                                               | X |
| 5                                            | TP11-1    | Sep 18, 2025 |               | Soil   | S25-Se0062781 | X                                               | X |
| 6                                            | TP12-1    | Sep 18, 2025 |               | Soil   | S25-Se0062782 | X                                               | X |
| Test Counts                                  |           |              |               |        |               | 6                                               | 3 |

## Internal Quality Control Review and Glossary

### General

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

### Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

### Units

|                                                  |                                           |                                                                          |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|
| <b>mg/kg:</b> milligrams per kilogram            | <b>mg/L:</b> milligrams per litre         | <b>ppm:</b> parts per million                                            |
| <b>µg/L:</b> micrograms per litre                | <b>ppb:</b> parts per billion             | <b>%:</b> Percentage                                                     |
| <b>org/100 mL:</b> Organisms per 100 millilitres | <b>NTU:</b> Nephelometric Turbidity Units | <b>MPN/100 mL:</b> Most Probable Number of organisms per 100 millilitres |
| <b>CFU:</b> Colony Forming Unit                  | <b>Colour:</b> Pt-Co Units (CU)           |                                                                          |

### Terms

|                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APHA</b>             | American Public Health Association                                                                                                                                                                                                                                                               |
| <b>CEC</b>              | Cation Exchange Capacity                                                                                                                                                                                                                                                                         |
| <b>COC</b>              | Chain of Custody                                                                                                                                                                                                                                                                                 |
| <b>CP</b>               | Client Parent - QC was performed on samples pertaining to this report                                                                                                                                                                                                                            |
| <b>CRM</b>              | Certified Reference Material (ISO17034) - reported as percent recovery.                                                                                                                                                                                                                          |
| <b>Dry</b>              | Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.                                                                                                                                                                                             |
| <b>Duplicate</b>        | A second piece of analysis from the same sample and reported in the same units as the result to show comparison.                                                                                                                                                                                 |
| <b>LOR</b>              | Limit of Reporting.                                                                                                                                                                                                                                                                              |
| <b>LCS</b>              | Laboratory Control Sample - reported as percent recovery.                                                                                                                                                                                                                                        |
| <b>Method Blank</b>     | 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.                                                                                                                                 |
| <b>NCP</b>              | Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.                                                                                                                                         |
| <b>RPD</b>              | Relative Percent Difference between two Duplicate pieces of analysis.                                                                                                                                                                                                                            |
| <b>SPIKE</b>            | Addition of the analyte to the sample and reported as percentage recovery.                                                                                                                                                                                                                       |
| <b>SRA</b>              | Sample Receipt Advice                                                                                                                                                                                                                                                                            |
| <b>Surr - Surrogate</b> | The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.                                                                                                                                                                  |
| <b>TBTO</b>             | 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. |
| <b>TCLP</b>             | Toxicity Characteristic Leaching Procedure                                                                                                                                                                                                                                                       |
| <b>TEQ</b>              | Toxic Equivalency Quotient or Total Equivalence                                                                                                                                                                                                                                                  |
| <b>QSM</b>              | US Department of Defense Quality Systems Manual Version 6.0                                                                                                                                                                                                                                      |
| <b>US EPA</b>           | United States Environmental Protection Agency                                                                                                                                                                                                                                                    |
| <b>WA DWER</b>          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA                                                                                                                                                                                                                    |

### QC - Acceptance Criteria

The acceptance criteria should only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

### QC Data General Comments

1. Where a result is reported as 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 are 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 |
|-----------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>   |       |          |  |  |                   |             |                 |
| TRH C6-C9                               | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH C10-C14                             | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH C15-C28                             | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| TRH C29-C36                             | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| TRH C6-C10                              | mg/kg | < 20     |  |  | 20                | Pass        |                 |
| TRH >C10-C16                            | mg/kg | < 50     |  |  | 50                | Pass        |                 |
| Naphthalene                             | mg/kg | < 0.5    |  |  | 0.5               | Pass        |                 |
| TRH >C16-C34                            | mg/kg | < 100    |  |  | 100               | Pass        |                 |
| TRH >C34-C40                            | mg/kg | < 100    |  |  | 100               | Pass        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                             |       |          |  |  |                   |             |                 |
| 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        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| 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        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>        |       |          |  |  |                   |             |                 |
| 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        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Organophosphorus Pesticides</b>      |       |          |  |  |                   |             |                 |
| 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        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| 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        |                 |

| Test                               | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| 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        |                 |
| <b>Method Blank</b>                |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>   |       |          |  |  |                   |             |                 |
| 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        |                 |
| 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        |                 |
| <b>Method Blank</b>                |       |          |  |  |                   |             |                 |
| <b>Organophosphorus Pesticides</b> |       |          |  |  |                   |             |                 |
| 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        |                 |

| Test                                    | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| 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        |                 |
| <b>Method Blank</b>                     |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                     |       |          |  |  |                   |             |                 |
| 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        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>   |       |          |  |  |                   |             |                 |
| TRH C6-C9                               | %     | 86       |  |  | 70-130            | Pass        |                 |
| TRH C10-C14                             | %     | 95       |  |  | 70-130            | Pass        |                 |
| TRH C6-C10                              | %     | 83       |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                            | %     | 95       |  |  | 70-130            | Pass        |                 |
| Naphthalene                             | %     | 93       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                             |       |          |  |  |                   |             |                 |
| Benzene                                 | %     | 102      |  |  | 70-130            | Pass        |                 |
| Toluene                                 | %     | 101      |  |  | 70-130            | Pass        |                 |
| Ethylbenzene                            | %     | 94       |  |  | 70-130            | Pass        |                 |
| m&p-Xylenes                             | %     | 96       |  |  | 70-130            | Pass        |                 |
| o-Xylene                                | %     | 96       |  |  | 70-130            | Pass        |                 |
| Xylenes - Total*                        | %     | 96       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| Acenaphthene                            | %     | 105      |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                          | %     | 99       |  |  | 70-130            | Pass        |                 |
| Anthracene                              | %     | 97       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                       | %     | 99       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                          | %     | 105      |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                  | %     | 94       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                    | %     | 104      |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                    | %     | 97       |  |  | 70-130            | Pass        |                 |
| Chrysene                                | %     | 103      |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                   | %     | 96       |  |  | 70-130            | Pass        |                 |
| Fluoranthene                            | %     | 101      |  |  | 70-130            | Pass        |                 |
| Fluorene                                | %     | 94       |  |  | 70-130            | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                  | %     | 97       |  |  | 70-130            | Pass        |                 |
| Naphthalene                             | %     | 98       |  |  | 70-130            | Pass        |                 |

| Test                                    | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Phenanthrene                            | %     | 99       |  |  | 70-130            | Pass        |                 |
| Pyrene                                  | %     | 104      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>        |       |          |  |  |                   |             |                 |
| Chlordanes - Total                      | %     | 86       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDD                                | %     | 88       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                                | %     | 92       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDT                                | %     | 92       |  |  | 70-130            | Pass        |                 |
| a-HCH                                   | %     | 80       |  |  | 70-130            | Pass        |                 |
| Aldrin                                  | %     | 90       |  |  | 70-130            | Pass        |                 |
| b-HCH                                   | %     | 86       |  |  | 70-130            | Pass        |                 |
| d-HCH                                   | %     | 83       |  |  | 70-130            | Pass        |                 |
| Dieldrin                                | %     | 90       |  |  | 70-130            | Pass        |                 |
| Endosulfan I                            | %     | 97       |  |  | 70-130            | Pass        |                 |
| Endosulfan II                           | %     | 83       |  |  | 70-130            | Pass        |                 |
| Endosulfan sulphate                     | %     | 84       |  |  | 70-130            | Pass        |                 |
| Endrin                                  | %     | 94       |  |  | 70-130            | Pass        |                 |
| Endrin aldehyde                         | %     | 78       |  |  | 70-130            | Pass        |                 |
| Endrin ketone                           | %     | 85       |  |  | 70-130            | Pass        |                 |
| g-HCH (Lindane)                         | %     | 82       |  |  | 70-130            | Pass        |                 |
| Heptachlor                              | %     | 85       |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                      | %     | 89       |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                       | %     | 85       |  |  | 70-130            | Pass        |                 |
| Methoxychlor                            | %     | 91       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Organophosphorus Pesticides</b>      |       |          |  |  |                   |             |                 |
| Diazinon                                | %     | 115      |  |  | 70-130            | Pass        |                 |
| Ethion                                  | %     | 112      |  |  | 70-130            | Pass        |                 |
| Fenitrothion                            | %     | 96       |  |  | 70-130            | Pass        |                 |
| Methyl parathion                        | %     | 121      |  |  | 70-130            | Pass        |                 |
| Mevinphos                               | %     | 104      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |       |          |  |  |                   |             |                 |
| Acenaphthene                            | %     | 82       |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                          | %     | 84       |  |  | 70-130            | Pass        |                 |
| Anthracene                              | %     | 90       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                       | %     | 79       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                          | %     | 82       |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                  | %     | 76       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                    | %     | 83       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                    | %     | 83       |  |  | 70-130            | Pass        |                 |
| Chrysene                                | %     | 82       |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene                   | %     | 80       |  |  | 70-130            | Pass        |                 |
| Fluoranthene                            | %     | 89       |  |  | 70-130            | Pass        |                 |
| Fluorene                                | %     | 86       |  |  | 70-130            | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                  | %     | 78       |  |  | 70-130            | Pass        |                 |
| Naphthalene                             | %     | 82       |  |  | 70-130            | Pass        |                 |
| Phenanthrene                            | %     | 80       |  |  | 70-130            | Pass        |                 |
| Pyrene                                  | %     | 85       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |       |          |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>        |       |          |  |  |                   |             |                 |
| Chlordanes - Total                      | %     | 74       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDD                                | %     | 77       |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                                | %     | 73       |  |  | 70-130            | Pass        |                 |



| Test                                    |               |           |  | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------------------|---------------|-----------|--|-------|----------|--|--|-------------------|-------------|-----------------|
| 4.4'-DDT                                |               |           |  | %     | 75       |  |  | 70-130            | Pass        |                 |
| a-HCH                                   |               |           |  | %     | 77       |  |  | 70-130            | Pass        |                 |
| Aldrin                                  |               |           |  | %     | 75       |  |  | 70-130            | Pass        |                 |
| Dieldrin                                |               |           |  | %     | 73       |  |  | 70-130            | Pass        |                 |
| Endosulfan I                            |               |           |  | %     | 77       |  |  | 70-130            | Pass        |                 |
| Endrin                                  |               |           |  | %     | 81       |  |  | 70-130            | Pass        |                 |
| Endrin ketone                           |               |           |  | %     | 72       |  |  | 70-130            | Pass        |                 |
| Heptachlor                              |               |           |  | %     | 78       |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                      |               |           |  | %     | 77       |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                       |               |           |  | %     | 78       |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |               |           |  |       |          |  |  |                   |             |                 |
| <b>Organophosphorus Pesticides</b>      |               |           |  |       |          |  |  |                   |             |                 |
| Diazinon                                |               |           |  | %     | 103      |  |  | 70-130            | Pass        |                 |
| Dimethoate                              |               |           |  | %     | 96       |  |  | 70-130            | Pass        |                 |
| Ethion                                  |               |           |  | %     | 104      |  |  | 70-130            | Pass        |                 |
| Fenitrothion                            |               |           |  | %     | 91       |  |  | 70-130            | Pass        |                 |
| Methyl parathion                        |               |           |  | %     | 111      |  |  | 70-130            | Pass        |                 |
| Mevinphos                               |               |           |  | %     | 102      |  |  | 70-130            | Pass        |                 |
| <b>LCS - % Recovery</b>                 |               |           |  |       |          |  |  |                   |             |                 |
| <b>Heavy Metals</b>                     |               |           |  |       |          |  |  |                   |             |                 |
| Arsenic                                 |               |           |  | %     | 94       |  |  | 80-120            | Pass        |                 |
| Cadmium                                 |               |           |  | %     | 95       |  |  | 80-120            | Pass        |                 |
| Chromium                                |               |           |  | %     | 101      |  |  | 80-120            | Pass        |                 |
| Copper                                  |               |           |  | %     | 100      |  |  | 80-120            | Pass        |                 |
| Lead                                    |               |           |  | %     | 101      |  |  | 80-120            | Pass        |                 |
| Mercury                                 |               |           |  | %     | 99       |  |  | 80-120            | Pass        |                 |
| Nickel                                  |               |           |  | %     | 99       |  |  | 80-120            | Pass        |                 |
| Zinc                                    |               |           |  | %     | 99       |  |  | 80-120            | Pass        |                 |
| Test                                    | Lab Sample ID | QA Source |  | Units | Result 1 |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
| <b>Spike - % Recovery</b>               |               |           |  |       |          |  |  |                   |             |                 |
| <b>Total Recoverable Hydrocarbons</b>   |               |           |  |       | Result 1 |  |  |                   |             |                 |
| TRH C6-C9                               | S25-Se0072738 | NCP       |  | %     | 92       |  |  | 70-130            | Pass        |                 |
| TRH C10-C14                             | N25-Se0060180 | NCP       |  | %     | 73       |  |  | 70-130            | Pass        |                 |
| TRH C6-C10                              | S25-Se0072738 | NCP       |  | %     | 89       |  |  | 70-130            | Pass        |                 |
| TRH >C10-C16                            | N25-Se0060180 | NCP       |  | %     | 71       |  |  | 70-130            | Pass        |                 |
| Naphthalene                             | S25-Se0072738 | NCP       |  | %     | 78       |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>               |               |           |  |       |          |  |  |                   |             |                 |
| <b>BTEX</b>                             |               |           |  |       | Result 1 |  |  |                   |             |                 |
| Benzene                                 | S25-Se0072738 | NCP       |  | %     | 89       |  |  | 70-130            | Pass        |                 |
| Toluene                                 | S25-Se0072738 | NCP       |  | %     | 89       |  |  | 70-130            | Pass        |                 |
| Ethylbenzene                            | S25-Se0072738 | NCP       |  | %     | 85       |  |  | 70-130            | Pass        |                 |
| m&p-Xylenes                             | S25-Se0072738 | NCP       |  | %     | 87       |  |  | 70-130            | Pass        |                 |
| o-Xylene                                | S25-Se0072738 | NCP       |  | %     | 82       |  |  | 70-130            | Pass        |                 |
| Xylenes - Total*                        | S25-Se0072738 | NCP       |  | %     | 85       |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>               |               |           |  |       |          |  |  |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |               |           |  |       | Result 1 |  |  |                   |             |                 |
| Acenaphthene                            | S25-Se0059501 | NCP       |  | %     | 83       |  |  | 70-130            | Pass        |                 |
| Acenaphthylene                          | S25-Se0059501 | NCP       |  | %     | 77       |  |  | 70-130            | Pass        |                 |
| Anthracene                              | S25-Se0059501 | NCP       |  | %     | 78       |  |  | 70-130            | Pass        |                 |
| Benz(a)anthracene                       | S25-Se0059501 | NCP       |  | %     | 80       |  |  | 70-130            | Pass        |                 |
| Benzo(a)pyrene                          | S25-Se0059501 | NCP       |  | %     | 86       |  |  | 70-130            | Pass        |                 |
| Benzo(b&j)fluoranthene                  | S25-Se0059501 | NCP       |  | %     | 77       |  |  | 70-130            | Pass        |                 |
| Benzo(g,h,i)perylene                    | S25-Se0059501 | NCP       |  | %     | 82       |  |  | 70-130            | Pass        |                 |
| Benzo(k)fluoranthene                    | S25-Se0059501 | NCP       |  | %     | 87       |  |  | 70-130            | Pass        |                 |

| Test                               | Lab Sample ID | QA Source | Units | Result 1       |  |  | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------------|--|--|-------------------|-------------|-----------------|
| Chrysene                           | S25-Se0059501 | NCP       | %     | 85             |  |  | 70-130            | Pass        |                 |
| Dibenz(a,h)anthracene              | S25-Se0059501 | NCP       | %     | 79             |  |  | 70-130            | Pass        |                 |
| Fluoranthene                       | S25-Se0059501 | NCP       | %     | 82             |  |  | 70-130            | Pass        |                 |
| Fluorene                           | S25-Se0059501 | NCP       | %     | 79             |  |  | 70-130            | Pass        |                 |
| Indeno(1,2,3-cd)pyrene             | S25-Se0059501 | NCP       | %     | 79             |  |  | 70-130            | Pass        |                 |
| Naphthalene                        | S25-Se0059501 | NCP       | %     | 79             |  |  | 70-130            | Pass        |                 |
| Phenanthrene                       | S25-Se0059501 | NCP       | %     | 83             |  |  | 70-130            | Pass        |                 |
| Pyrene                             | S25-Se0059501 | NCP       | %     | 84             |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>          |               |           |       |                |  |  |                   |             |                 |
| <b>Organochlorine Pesticides</b>   |               |           |       | Result 1       |  |  |                   |             |                 |
| Chlordanes - Total                 | S25-Se0059501 | NCP       | %     | 71             |  |  | 70-130            | Pass        |                 |
| 4,4'-DDD                           | S25-Se0062346 | NCP       | %     | 97             |  |  | 70-130            | Pass        |                 |
| 4,4'-DDE                           | S25-Se0059501 | NCP       | %     | 78             |  |  | 70-130            | Pass        |                 |
| 4,4'-DDT                           | S25-Se0059501 | NCP       | %     | 72             |  |  | 70-130            | Pass        |                 |
| a-HCH                              | S25-Se0062346 | NCP       | %     | 86             |  |  | 70-130            | Pass        |                 |
| Aldrin                             | S25-Se0059501 | NCP       | %     | 74             |  |  | 70-130            | Pass        |                 |
| b-HCH                              | S25-Se0059501 | NCP       | %     | 71             |  |  | 70-130            | Pass        |                 |
| d-HCH                              | S25-Se0062346 | NCP       | %     | 87             |  |  | 70-130            | Pass        |                 |
| Dieldrin                           | S25-Se0059501 | NCP       | %     | 78             |  |  | 70-130            | Pass        |                 |
| Endosulfan I                       | S25-Se0059501 | NCP       | %     | 76             |  |  | 70-130            | Pass        |                 |
| Endosulfan II                      | S25-Se0059501 | NCP       | %     | 72             |  |  | 70-130            | Pass        |                 |
| Endosulfan sulphate                | S25-Se0062346 | NCP       | %     | 90             |  |  | 70-130            | Pass        |                 |
| Endrin                             | S25-Se0059501 | NCP       | %     | 74             |  |  | 70-130            | Pass        |                 |
| Endrin aldehyde                    | S25-Se0071824 | NCP       | %     | 104            |  |  | 70-130            | Pass        |                 |
| Endrin ketone                      | S25-Se0059501 | NCP       | %     | 72             |  |  | 70-130            | Pass        |                 |
| g-HCH (Lindane)                    | S25-Se0059501 | NCP       | %     | 75             |  |  | 70-130            | Pass        |                 |
| Heptachlor                         | S25-Se0059501 | NCP       | %     | 73             |  |  | 70-130            | Pass        |                 |
| Heptachlor epoxide                 | S25-Se0059501 | NCP       | %     | 70             |  |  | 70-130            | Pass        |                 |
| Hexachlorobenzene                  | S25-Se0059501 | NCP       | %     | 73             |  |  | 70-130            | Pass        |                 |
| Methoxychlor                       | S25-Se0059501 | NCP       | %     | 73             |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>          |               |           |       |                |  |  |                   |             |                 |
| <b>Organophosphorus Pesticides</b> |               |           |       | Result 1       |  |  |                   |             |                 |
| Diazinon                           | S25-Se0059501 | NCP       | %     | 85             |  |  | 70-130            | Pass        |                 |
| Dimethoate                         | S25-Se0059501 | NCP       | %     | 83             |  |  | 70-130            | Pass        |                 |
| Ethion                             | S25-Se0059501 | NCP       | %     | 93             |  |  | 70-130            | Pass        |                 |
| Fenitrothion                       | S25-Se0059501 | NCP       | %     | 73             |  |  | 70-130            | Pass        |                 |
| Methyl parathion                   | S25-Se0059501 | NCP       | %     | 88             |  |  | 70-130            | Pass        |                 |
| Mevinphos                          | S25-Se0059501 | NCP       | %     | 73             |  |  | 70-130            | Pass        |                 |
| <b>Spike - % Recovery</b>          |               |           |       |                |  |  |                   |             |                 |
| <b>Heavy Metals</b>                |               |           |       | Result 1       |  |  |                   |             |                 |
| Arsenic                            | S25-Se0062781 | CP        | %     | 92             |  |  | 75-125            | Pass        |                 |
| Cadmium                            | S25-Se0062781 | CP        | %     | 97             |  |  | 75-125            | Pass        |                 |
| Chromium                           | S25-Se0062781 | CP        | %     | 103            |  |  | 75-125            | Pass        |                 |
| Copper                             | S25-Se0062781 | CP        | %     | 81             |  |  | 75-125            | Pass        |                 |
| Lead                               | S25-Se0062781 | CP        | %     | 98.000000<br>0 |  |  | 75-125            | Fail        | J01             |
| Mercury                            | S25-Se0062781 | CP        | %     | 92             |  |  | 75-125            | Pass        |                 |
| Nickel                             | S25-Se0062781 | CP        | %     | 92             |  |  | 75-125            | Pass        |                 |
| Zinc                               | S25-Se0062781 | CP        | %     | 1.0            |  |  | 75-125            | Fail        | J01             |

| Test                                    | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| <b>Duplicate</b>                        |               |           |       |          |          |     |                   |             |                 |
| <b>Heavy Metals</b>                     |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Arsenic                                 | R25-Se0056446 | NCP       | mg/kg | 29       | 28       | 6.0 | 30%               | Pass        |                 |
| Cadmium                                 | R25-Se0056446 | NCP       | mg/kg | < 0.4    | < 0.4    | <1  | 30%               | Pass        |                 |
| Chromium                                | R25-Se0056446 | NCP       | mg/kg | 27       | 27       | 1.0 | 30%               | Pass        |                 |
| Copper                                  | R25-Se0056446 | NCP       | mg/kg | 20       | 19       | 3.0 | 30%               | Pass        |                 |
| Lead                                    | R25-Se0056446 | NCP       | mg/kg | 31       | 29       | 7.0 | 30%               | Pass        |                 |
| Mercury                                 | R25-Se0056446 | NCP       | mg/kg | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| Nickel                                  | R25-Se0056446 | NCP       | mg/kg | 17       | 16       | 8.0 | 30%               | Pass        |                 |
| Zinc                                    | R25-Se0056446 | NCP       | mg/kg | 71       | 67       | 6.0 | 30%               | Pass        |                 |
| <b>Duplicate</b>                        |               |           |       |          |          |     |                   |             |                 |
| <b>Sample Properties</b>                |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| % Moisture                              | S25-Se0062778 | CP        | %     | 28       | 28       | 1.0 | 30%               | Pass        |                 |
| <b>Duplicate</b>                        |               |           |       |          |          |     |                   |             |                 |
| <b>Polycyclic Aromatic Hydrocarbons</b> |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Acenaphthene                            | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Acenaphthylene                          | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Anthracene                              | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Benz(a)anthracene                       | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Benzo(a)pyrene                          | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Benzo(b&j)fluoranthene                  | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Benzo(g,h,i)perylene                    | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Benzo(k)fluoranthene                    | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Chrysene                                | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Dibenz(a,h)anthracene                   | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Fluoranthene                            | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Fluorene                                | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Indeno(1,2,3-cd)pyrene                  | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Naphthalene                             | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Phenanthrene                            | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| Pyrene                                  | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |
| <b>Duplicate</b>                        |               |           |       |          |          |     |                   |             |                 |
| <b>Organochlorine Pesticides</b>        |               |           |       | Result 1 | Result 2 | RPD |                   |             |                 |
| Chlordanes - Total                      | S25-Se0062781 | CP        | mg/kg | < 0.1    | < 0.1    | <1  | 30%               | Pass        |                 |
| 4,4'-DDD                                | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| 4,4'-DDE                                | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| 4,4'-DDT                                | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| α-HCH                                   | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Aldrin                                  | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| β-HCH                                   | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| δ-HCH                                   | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Dieldrin                                | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endosulfan I                            | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endosulfan II                           | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endosulfan sulphate                     | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endrin                                  | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endrin aldehyde                         | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Endrin ketone                           | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| γ-HCH (Lindane)                         | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Heptachlor                              | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Heptachlor epoxide                      | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Hexachlorobenzene                       | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Methoxychlor                            | S25-Se0062781 | CP        | mg/kg | < 0.05   | < 0.05   | <1  | 30%               | Pass        |                 |
| Toxaphene                               | S25-Se0062781 | CP        | mg/kg | < 0.5    | < 0.5    | <1  | 30%               | Pass        |                 |

| Duplicate                      |               |    |       |          |          |     |     |      |
|--------------------------------|---------------|----|-------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides    |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Azinphos-methyl                | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Bolstar                        | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorfenvinphos                | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorpyrifos                   | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorpyrifos-methyl            | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Coumaphos                      | S25-Se0062781 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Demeton-S                      | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Demeton-O                      | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Diazinon                       | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Dichlorvos                     | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Dimethoate                     | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Disulfoton                     | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| EPN                            | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethion                         | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethoprop                       | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethyl parathion                | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fenitrothion                   | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fensulfthion                   | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fenthion                       | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Malathion                      | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Merphos                        | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Methyl parathion               | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Mevinphos                      | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Monocrotophos                  | S25-Se0062781 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Naled                          | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Omethoate                      | S25-Se0062781 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Phorate                        | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Pirimiphos-methyl              | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Pyrazophos                     | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ronnel                         | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Terbufos                       | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Tetrachlorvinphos              | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Tokuthion                      | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Trichloronate                  | S25-Se0062781 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Duplicate                      |               |    |       |          |          |     |     |      |
| Total Recoverable Hydrocarbons |               |    |       | Result 1 | Result 2 | RPD |     |      |
| TRH C6-C9                      | S25-Se0062782 | CP | mg/kg | < 20     | < 20     | <1  | 30% | Pass |
| TRH C10-C14                    | S25-Se0062782 | CP | mg/kg | < 20     | < 20     | <1  | 30% | Pass |
| TRH C15-C28                    | S25-Se0062782 | CP | mg/kg | < 50     | < 50     | <1  | 30% | Pass |
| TRH C29-C36                    | S25-Se0062782 | CP | mg/kg | < 50     | < 50     | <1  | 30% | Pass |
| TRH C6-C10                     | S25-Se0062782 | CP | mg/kg | < 20     | < 20     | <1  | 30% | Pass |
| TRH >C10-C16                   | S25-Se0062782 | CP | mg/kg | < 50     | < 50     | <1  | 30% | Pass |
| Naphthalene                    | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| TRH >C16-C34                   | S25-Se0062782 | CP | mg/kg | < 100    | < 100    | <1  | 30% | Pass |
| TRH >C34-C40                   | S25-Se0062782 | CP | mg/kg | < 100    | < 100    | <1  | 30% | Pass |
| Duplicate                      |               |    |       |          |          |     |     |      |
| BTX                            |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Benzene                        | S25-Se0062782 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Toluene                        | S25-Se0062782 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Ethylbenzene                   | S25-Se0062782 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| m&p-Xylenes                    | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| o-Xylene                       | S25-Se0062782 | CP | mg/kg | < 0.1    | < 0.1    | <1  | 30% | Pass |
| Xylenes - Total*               | S25-Se0062782 | CP | mg/kg | < 0.3    | < 0.3    | <1  | 30% | Pass |

| Duplicate                        |               |    |       |          |          |     |     |      |
|----------------------------------|---------------|----|-------|----------|----------|-----|-----|------|
| Polycyclic Aromatic Hydrocarbons |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Acenaphthene                     | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Acenaphthylene                   | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Anthracene                       | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benz(a)anthracene                | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(a)pyrene                   | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(b&j)fluoranthene           | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(g,h,i)perylene             | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Benzo(k)fluoranthene             | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Chrysene                         | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Dibenz(a,h)anthracene            | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Fluoranthene                     | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Fluorene                         | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Indeno(1,2,3-cd)pyrene           | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Naphthalene                      | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Phenanthrene                     | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Pyrene                           | S25-Se0062782 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |
| Duplicate                        |               |    |       |          |          |     |     |      |
| Organophosphorus Pesticides      |               |    |       | Result 1 | Result 2 | RPD |     |      |
| Azinphos-methyl                  | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Bolstar                          | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorfenvinphos                  | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorpyrifos                     | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Chlorpyrifos-methyl              | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Coumaphos                        | S25-Se0062782 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Demeton-S                        | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Demeton-O                        | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Diazinon                         | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Dichlorvos                       | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Dimethoate                       | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Disulfoton                       | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| EPN                              | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethion                           | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethoprop                         | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ethyl parathion                  | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fenitrothion                     | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fensulfothion                    | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Fenthion                         | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Malathion                        | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Merphos                          | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Methyl parathion                 | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Mevinphos                        | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Monocrotophos                    | S25-Se0062782 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Naled                            | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Omethoate                        | S25-Se0062782 | CP | mg/kg | < 2      | < 2      | <1  | 30% | Pass |
| Phorate                          | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Pirimiphos-methyl                | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Pyrazophos                       | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Ronnel                           | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Terbufos                         | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Tetrachlorvinphos                | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Tokuthion                        | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |
| Trichloronate                    | S25-Se0062782 | CP | mg/kg | < 0.2    | < 0.2    | <1  | 30% | Pass |



## Comments

### Sample Integrity

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

### Qualifier Codes/Comments

| Code | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J01  | Failures of the Matrix Spike (MS) due to the presence of analytes(s) in parent sample at > 3X the spike concentration.                                                                                                                                                                                                                                                                                                 |
| 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:

|                    |                                  |
|--------------------|----------------------------------|
| Nileshni Goundar   | Analytical Services Manager      |
| Mickael Ros        | Senior Analyst-Metal             |
| Raymond Siu        | Senior Analyst-Volatile          |
| Roopesh Rangarajan | Senior Analyst-Organic           |
| Ryan Phillips      | Senior Analyst-Sample Properties |



**Glenn Jackson**  
Managing Director

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

ASET130404/133584/1-9



|                    |  |                              |  |                   |  |                |  |                |  |                                                                                          |  |                                                                                                   |  |                                                                                                   |  |                                |  |                            |  |                            |  |                                             |  |                            |  |
|--------------------|--|------------------------------|--|-------------------|--|----------------|--|----------------|--|------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|--------------------------------|--|----------------------------|--|----------------------------|--|---------------------------------------------|--|----------------------------|--|
| Laboratory         |  | Project #                    |  | Project Name      |  | Project Sample |  | RO             |  | Email to: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Email for Results: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Required Turnaround Time (TAT)                                                                    |  |                                |  |                            |  |                            |  |                                             |  |                            |  |
| Laboratory Address |  | 199 Macquarie Road, Glenview |  | 1648              |  | beacraft       |  | NO             |  | 30ml, Plastic                                                                            |  | 125ml, Plastic                                                                                    |  | 20ml, Amber Glass                                                                                 |  | 40ml, VOA vial                 |  | 100ml, PVA vial            |  | Jars (Glass or HDPE)       |  | Other (Indicate AS/NZS 3554:18A Guidelines) |  | Sample Container: Standard |  |
| CHEC Contact Name  |  | Rachel                       |  | Analysis Required |  | NEPM ASB       |  | ASB ID         |  | 30ml, Plastic                                                                            |  | 125ml, Plastic                                                                                    |  | 20ml, Amber Glass                                                                                 |  | 40ml, VOA vial                 |  | 100ml, PVA vial            |  | Jars (Glass or HDPE)       |  | Other (Indicate AS/NZS 3554:18A Guidelines) |  | Sample Container: Standard |  |
| CHEC Phone No      |  | 0403 040 469                 |  | Project Name      |  | beacraft       |  | Project Sample |  | RO                                                                                       |  | Email to: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a>          |  | Email for Results: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Required Turnaround Time (TAT) |  | Sample Container: Standard |  | Sample Container: Standard |  | Sample Container: Standard                  |  | Sample Container: Standard |  |
| Special Direction  |  |                              |  | Project Name      |  | beacraft       |  | Project Sample |  | RO                                                                                       |  | Email to: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a>          |  | Email for Results: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Required Turnaround Time (TAT) |  | Sample Container: Standard |  | Sample Container: Standard |  | Sample Container: Standard                  |  | Sample Container: Standard |  |
| Purchase Order     |  |                              |  | Project Name      |  | beacraft       |  | Project Sample |  | RO                                                                                       |  | Email to: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a>          |  | Email for Results: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Required Turnaround Time (TAT) |  | Sample Container: Standard |  | Sample Container: Standard |  | Sample Container: Standard                  |  | Sample Container: Standard |  |
| Quote ID No        |  | ZHMZ/CHEN                    |  | Project Name      |  | beacraft       |  | Project Sample |  | RO                                                                                       |  | Email to: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a>          |  | Email for Results: <a href="mailto:info@compliancehealth.com.au">info@compliancehealth.com.au</a> |  | Required Turnaround Time (TAT) |  | Sample Container: Standard |  | Sample Container: Standard |  | Sample Container: Standard                  |  | Sample Container: Standard |  |
| Sample ID          |  | Sample Date                  |  | Sample Type       |  | Sample Type    |  | Sample Type    |  | Sample Type                                                                              |  | Sample Type                                                                                       |  | Sample Type                                                                                       |  | Sample Type                    |  | Sample Type                |  | Sample Type                |  | Sample Type                                 |  | Sample Type                |  |
| TP1-1              |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP2-1              |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP3-1              |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP6-1              |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP8-1              |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP11-1             |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP12-1             |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP2-1ACM           |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| TP13-1             |  | 18/9                         |  | Soil              |  | X              |  | X              |  | X                                                                                        |  | X                                                                                                 |  | X                                                                                                 |  | X                              |  | X                          |  | X                          |  | X                                           |  | X                          |  |
| Total Counts       |  | Name                         |  | Signature         |  | Date           |  | Time           |  | Cooling Method                                                                           |  | Ice / Ice Bricks / Fridge                                                                         |  | Cooling Method                                                                                    |  | Ice / Ice Bricks / Fridge      |  | Cooling Method             |  | Ice / Ice Bricks / Fridge  |  | Cooling Method                              |  | Ice / Ice Bricks / Fridge  |  |
| Delivered          |  | Received By                  |  | Signature         |  | Date           |  | Time           |  | Cooling Method                                                                           |  | Ice / Ice Bricks / Fridge                                                                         |  | Cooling Method                                                                                    |  | Ice / Ice Bricks / Fridge      |  | Cooling Method             |  | Ice / Ice Bricks / Fridge  |  | Cooling Method                              |  | Ice / Ice Bricks / Fridge  |  |

SP 18/9/25 11:40AM

18 SEP 2025



# AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET130404 / 133584 / 1 - 9  
Your ref : 1648 - Beecroft  
**NATA Accreditation No: 14484**



22 September 2025

Compliance Health & Environmental Consulting  
PO Box 275  
Gosford NSW 2250

Accredited for compliance with ISO/IEC 17025 - Testing.

**Attn: Mr Richard Case**

Dear Richard

## **Asbestos Identification**

This report presents the results of nine samples, forwarded by Compliance Health & Environmental Consulting on 18 September 2025, for analysis for asbestos.

**1.Introduction:** Nine samples forwarded were examined and analysed for the presence of asbestos on 18 September 2025.

**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 AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).

The report also provides approximate weights and percentages, categories of asbestos forms appearing in the sample, such as **AF**(Asbestos Fines), **FA**(Friable Asbestos) and **ACM** (Asbestos Containing Material), also satisfying the requirements of the NEPM Guidelines).

**3. Results :** **Sample No. 1. ASET130404 / 133584 / 1. 1648 - TP1-1.**  
Approx dimensions 10.0 cm x 10.0 cm x 5.5 cm  
Approximate total dry weight of soil = 546.0g.  
The sample consisted of a mixture of sandy soil, stones, wood chips and plant matter.  
**No asbestos detected.**

**Ω Sample No. 2. ASET130404 / 133584 / 2. 1648 - TP2-1.**  
Approx dimensions 10.0 cm x 10.0 cm x 4.8 cm  
Approximate total dry weight of soil = 480.0g.  
The sample consisted of a mixture of sandy soil, stones, fragments of cement, corroded metal, glass, sandstone, wood chips and plant matter.  
**No asbestos detected.**

**Sample No. 3. ASET130404 / 133584 / 3. 1648 – TP3-1.**  
Approx dimensions 10.0 cm x 10.0 cm x 5.3 cm  
Approximate total dry weight of soil = 527.0g.  
The sample consisted of a mixture of sandy soil, stones, clay, sandstone and plant matter.  
**No asbestos detected.**

**Ω Sample No. 4. ASET130404 / 133584 / 4. 1648 - TP6-1.**  
Approx dimensions 10.0 cm x 10.0 cm x 4.8 cm  
Approximate total dry weight of soil = 480.0g.  
The sample consisted of a mixture of sandy soil, stones, sandstone, shale 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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**Ω Sample No. 5. ASET130404 / 133584 / 5. 1648 - TP8-1.**

Approx dimensions 10.0 cm x 10.0 cm x 3.6 cm

Approximate total dry weight of soil = 364.0g.

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

**No asbestos detected.**

**Ω Sample No. 6. ASET130404 / 133584 / 6. 1648 - TP11-1.**

Approx dimensions 10.0 cm x 10.0 cm x 4.8 cm

Approximate total dry weight of soil = 475.0g.

The sample consisted of a mixture of sandy soil, stones, sandstone, shale and plant matter.

**No asbestos detected.**

**Ω Sample No. 7. ASET130404 / 133584 / 7. 1648 - TP12-1.**

Approx dimensions 10.0 cm x 10.0 cm x 4.4 cm

Approximate total dry weight of soil = 435.0g.

The sample consisted of a mixture of sandy soil, stones, sandstone and plant matter.

**No asbestos detected.**

**λ Sample No. 8. ASET130404 / 133584 / 8. 1648 - TP2-1ACM.**

Approx dimensions 20.2 cm x 11.0 cm x 0.4 cm

The sample consisted of a fragment of a fibre cement material.

**Chrysotile asbestos detected.**

**Approximate total dry weight of fibre cement = 97.0g.**

**Sample No. 9. ASET130404 / 133584 / 9. 1648 - TP13-1.**

Approx dimensions 10.0 cm x 10.0 cm x 5.6 cm

Approximate total dry weight of soil = 557.0g.

The sample consisted of a mixture of sandy soil, stones, sandstone and plant matter.

**No asbestos detected.**

Reported by,

A handwritten signature in black ink, appearing to read "Mahen De Silva", is written over a light blue grid background.

**Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)**

**Occupational Hygienist / Approved Identifier.**

**Approved Signatory**



**Accredited for compliance with ISO/IEC 17025 - Testing.**

*This report is consistent with the analytical procedures and reporting recommendations in the Western Australia Guidelines for the Assessment Remediation and Management of Asbestos contaminated sites in Western Australia and it also satisfies the requirements of the current NEPM Guidelines. NATA Accreditation does not cover the performance of this service.*

**Disclaimers;**

*The approx; weights given above can be used only as a guide. They do not represent absolute weights of each kind of asbestos, as it is impossible to extract all loose fibres from soil and other asbestos*





*containing building material samples using this method. However above figures may be used as closest approximations to the exact values in each case. Estimation and/ or reporting of asbestos fibre weights in asbestos containing materials and soil is out of the Scope of the NATA Accreditation. NATA Accreditation only covers the qualitative part of the results reported. This weight disclaimer also covers weight / weight percentages if given.*

**ACM - Asbestos Containing Material - Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Here taken to be sound material, even as fragments and not fitting through a 7mm X 7 mm sieve.**

**AF -Includes asbestos free fibres, small fibre bundles and also ACM fragments that pass through a 7mm X 7 mm sieve.**

**FA -Friable asbestos material such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products.**

**^ denotes loose fibres of relevant asbestos types detected in soil/dust.**

**\* denotes asbestos detected in ACM in bonded form.**

**# denotes friable asbestos as soft fibro plaster, fragments of ACM smaller than 7mm which are considered as friable and / or highly weathered ACM that will easily crumble.**

**λ denotes samples that have been analysed only in accordance to AS 4964 – 2004.**

**Ω Sample volume criteria of 500mL have not been satisfied.**

*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.*

*Estimation of asbestos weights involves the use of following assumptions;*

*Volume of each kind of Asbestos present in broken edges have been visually estimated and its been assumed that volumes remain similar throughout the binding matrix and those volumes are only approximate and not exact. Material densities have been assumed to be similar to commonly found similar materials and may not be exact.*

**All samples indicating "No asbestos detected" are assumed to be less than 0.001% for friable AF and FA portions detected and 0.01 % for ACM detected unless the approximate weight is given.**





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## Appendix C – Proposed Master Plan









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## Appendix D – Test Pit Bore Logs

## Test Pit Log

| Test Pit | Fill Depth (m) | Soil Description                                                                                         | Soil Type | Sample Depth (m) |
|----------|----------------|----------------------------------------------------------------------------------------------------------|-----------|------------------|
| TP1      | 0-0.5          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | 0.15             |
|          | 0.5            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP2      | 0-0.5          | Organic dark brown clay loams with substantial amounts of brick and plastic pipe. ACM fragments observed | Fill      | 0.15             |
|          | 0.5            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP3      | 0-0.5          | Organic dark brown clay loams with rootlet inclusions. ACM and minor building material observed          | Fill      | 0.5              |
|          | 0.5            | Orange clays with yellow mottling                                                                        |           |                  |
| TP4      | 0-0.6          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.6            | Grey clay with orange mottling                                                                           | Natural   |                  |
| TP5      | 0-0.3          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.3            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP6      | 0-0.6          | Organic dark brown clay loams with rootlet inclusions and ACM fragments                                  | Fill      | 0.15             |
|          | 0.6            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP7      | 0-0.4          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.4            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP8      | 0-0.6          | Organic dark brown clay loams with rootlet inclusions. Small portion of ash, sandstone and shale         | Fill      | 0.15             |
|          | 0.6            | Grey shale                                                                                               | Natural   |                  |
| TP9      | 0-0.4          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.4            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP10     | 0-0.4          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.4            | Orange clays with yellow mottling. Some shale inclusions                                                 | Natural   |                  |
| TP11     | 0-0.3          | Light brown sandy clay loam with rootlet and gravel inclusions                                           | Fill      | 0.15             |
|          | 0.3            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP12     | 0-0.3          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | 0.15             |
|          | 0.3            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP13     | 0-0.3          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | 0.15             |
|          | 0.3            | Orange clays with yellow mottling                                                                        | Natural   |                  |
| TP14     | 0-0.3          | Organic dark brown clay loams with rootlet inclusions.                                                   | Fill      | Visual           |
|          | 0.3            | Orange clays with yellow mottling                                                                        | Natural   |                  |