

Stage 2 Detailed Site Investigation
Lot 1, 2 & 3 in DP212617 and Lot 8 in DP660564
259-271 Pacific Highway, Lindfield, NSW

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Stage 2 Detailed Site Investigation

Lot 1, 2 & 3 in DP212617 and Lot 8 in DP660564

259-271 Pacific Highway, Lindfield, NSW

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Executive Summary

SLR Consulting Pty Ltd (SLR) was engaged by Ku-ring-gai Council prepare a stage 2 detailed site investigation (DSI) for 259-271 Pacific Highway, Lindfield, NSW (the site).

The assessment was undertaken in accordance with SLR's offer of services dated 27 July 2015, (ref: 610.14433 Offer of Services 20150727).

SLR understood the following:

- The site is the subject of potential redevelopment, comprising a mix of high density residential units, ground floor residential / child care, and basement car parking;
- A stage 1 preliminary site investigation (PSI) was undertaken for the site by SLR in February 2015; and
- A stage 2 detailed site investigation (DSI) was required by Council, to address the recommendations contained in the stage 1 PSI report.

The objectives of this project were to:

- Assess the potential for unacceptable human health exposure risks to be present in the identified
 areas of environmental concern, in the context of land contamination and a high density
 residential, ground floor child care / residential and basement car parking (across a large portion
 of the site) land use scenario;
- Provide advice on the suitability of the site (in the context of land contamination) for the proposed land use scenario; and
- Provide recommendations for additional investigation, management or remediation of the site (if warranted).

It is noted that the proposed development is only at master planning stage and detailed concept / architectural plans were not available at the time of undertaking this investigation.

SLR undertook the following scope of work to address the project objectives:

- a desktop review;
- · soil sampling and laboratory analysis; and
- data assessment and reporting.

SLR understands an application for an exception from the need for an excavation permit under section139 (4)of the Heritage Act 1977 for geotechnical and environmental works at 259-271 Pacific Highway, Lindfield NSW, was endorsed by the Office of Environment and Heritage on 19 November 2015. As part of Council's compliance with the endorsed application, monitoring of the soil sampling component of the DSI works on 6 December 2015, was undertaken by archaeologist Ngaire Richardson from Future Past heritage consultants.

Based on a review of the available desktop search data, observations made during fieldwork, and the results of sample laboratory analysis (in the context of the proposed masterplan redevelopment land use scenario at the site), SLR makes the following conclusions:

 The detected concentrations of the identified contaminants of potential concern in soils in the areas of environmental concern on the site, are considered unlikely to present an unacceptable soil vapour or vapour intrusion human health exposure risk;

Executive Summary

- The detected concentrations of the identified contaminants of potential concern in soils in the
 areas of environmental concern on the site, are considered unlikely to present an unacceptable
 direct contact human health exposure risk, with the exception of lead at sampling point TP01 and
 TP07, and carcinogenic PAH (as benzo(a)pyrene TEQ) at sampling points TP01, TP06, TP07
 and HA06:
- The potential for unacceptable contamination human health exposure risks to be present in uncharacterised fill soils in the vicinity of sampling points HA01, HA04 and HA06, cannot be precluded;
- It is considered that the site could be made suitable for the proposed land use scenario, subject to:
 - further assessment and management/remediation (if warranted) of identified lead and carcinogenic PAH impacts in soil, taking into consideration future detailed design of the proposed development;
 - addressing uncertainty around fill material in the vicinity of sampling points HA01, HA04 and HA06, taking into consideration future detailed design of the proposed development, and the limitations of undertaking further investigations while underground services are still present in the vicinity of HA06;
- In the event that management and/or remediation of lead or carcinogenic PAH in soils is required, there are well established and industry accepted methods available for addressing this form of contamination. Management and/or remediation options could include in-situ containment, ex-situ containment, or offsite disposal;
- Hazardous materials including but not limited to asbestos, that may be present in structures on the site, should be appropriately managed / removed, and appropriate clearances obtained from a suitably experienced occupational hygienist or environmental consultant, before demolition of those structures. This will assist in mitigating potential for future land contamination to occur during demolition, which can happen if hazardous materials are not managed appropriately; and
- Further contamination assessment works at the site should be undertaken by a suitable experienced environmental consultant.

This report must be read in conjunction with the limitations set out in Section 13 of this report.

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1 INTRODUCTION

1.1 **Background**

SLR Consulting Pty Ltd (SLR) was engaged by Ku-ring-gai Council prepare a stage 2 detailed site investigation (DSI) for 259-271 Pacific Highway, Lindfield, NSW (the site).

The assessment was undertaken in accordance with SLR's offer of services dated 27 July 2015, (ref: 610.14433 Offer of Services 20150727).

SLR understood the following:

- The site is the subject of potential redevelopment, comprising a mix of high density residential units, ground floor residential / child care, and basement car parking;
- A stage 1 preliminary site investigation (PSI) was undertaken for the site by SLR in February 2015; and
- A stage 2 detailed site investigation (DSI) was required by Council, to address the recommendations contained in the stage 1 PSI report.

1.2 **Objectives**

The objectives of this project were to:

- Assess the potential for unacceptable human health exposure risks to be present in the identified areas of environmental concern, in the context of land contamination and a high density residential, ground floor child care / residential and basement car parking (across a large portion of the site) land use scenario;
- Provide advice on the suitability of the site (in the context of land contamination) for the proposed land use scenario; and
- Provide recommendations for additional investigation, management or remediation of the site (if warranted).

It is noted that the proposed development is only at master planning stage and detailed concept / architectural plans were not available at the time of undertaking this investigation.

1.3 Scope of Work

SLR undertook the following scope of work to address the project objectives:

- a desktop review:
- soil sampling and laboratory analysis; and
- data assessment and reporting.

SLR understands an application for an exception from the need for an excavation permit under section139 (4)of the Heritage Act 1977 for geotechnical and environmental works at 259-271 Pacific Highway, Lindfield NSW, was endorsed by the Office of Environment and Heritage on 19 November 2015. As part of Council's compliance with the endorsed application, monitoring of the soil sampling component of the DSI works on 6 December 2015, was undertaken by archaeologist Ngaire Richardson from Future Past heritage consultants.

2 SITE IDENTIFICATION

The locality of the site is presented in Figure 1.

The site is legally identified as Lot 1, 2 and 3 in DP212617 and Lot 8 in DP660564.

The site is irregular in shape and occupies an area of approximately 5,852m².

The layout of the site is presented in Figure 2.

A detail and level survey of the site is presented in Appendix A.

3 SITE SETTING

3.1 Geology

The Geological Survey of NSW Sydney 1:100,000 Geological Series Sheet 9130 Edition 1 (1983) indicates that the site is underlain with Triassic Ashfield Shale, comprised of black to dark grey shale and laminite.

3.2 Topography

The topography is generally flat with some localised undulations, and east facing slopes. The site is located at an approximate elevation of 95m to 105m Australian height datum (AHD).

3.3 Hydrogeology

The nearest surface water courses to the site are considered to be Sugarbag Creek (located approximately 950m to the south west) and Gordon Creek (located approximately 750m to the north east).

Based on the regional topography and the location of nearby water bodies, it is considered that groundwater flow at the site is likely to be towards the east and north.

A search of the NSW Natural Resources Atlas (NSW-NRS, <u>www.nratlas.nsw.gov.au</u>) conducted on 4 February 2015 did not identify any registered groundwater works features within the search area (500m radius of the site).

3.4 Acid Sulfate Soils

The Department of Land and Water Conservation (DLWC) acid sulfate soil (ASS) risk map for Hornsby / Mona Vale (Edition 2) indicates that the map class description for the site is "no known occurrence", meaning acid sulfate soils are not known or expected to occur in these environments. The environmental risk associated with this map class description is "land management activities are not likely to be affected by acid sulfate soil materials".

No further assessment of acid sulfate soil risk for this site is considered warranted.

4 PREVIOUS CONTAMINATION ASSESSMENTS

The following contamination assessment related reports were available for review as part of this investigation:

SLR Consulting 2015, 'Stage 1 Preliminary Site Investigation, Lot 1, 2 & 3 in DP212617 and Lot 8 in DP660564, 259-271 Pacific Highway, Lindfield, NSW' dated 20 February 2015, ref: 610.14433-R3.

A summary of this report is presented in Section 4.1.

4.1 SLR (2015)

The objectives of this project were to:

- Make an assessment of the likelihood of contamination to be present on the site, as a result of past and present land use activities;
- Provide preliminary recommendations on further contamination assessment, management or remediation works (if required).

SLR undertook the following scope of work to address the project objectives:

- a desktop review;
- a site walkover; and
- data assessment and reporting.

Based on the results of the desktop review and site walkover, SLR identified a number of areas of environmental concern (AEC) and contaminants of potential concern (COPC) for the site.

Based on a review of the available desktop search data and observations made during the site walkover, SLR makes the following conclusions and recommendations:

- There is a moderate likelihood of unacceptable contamination to be present on the site, as a result of past and present land use activities;
- Further assessment would be required to assess the suitability of the site for future land uses.
 The further assessment would likely require intrusive soil sampling using a targeted sampling point approach to address the identified areas of environmental concern; and
- Likely future land use options should be identified prior to undertaking further assessment works, to enable appropriate human and environmental health exposure scenarios to be considered during those assessment works.

5 CONCEPTUAL SITE MODEL

5.1 Areas of Environmental Concern and Contaminants of Potential Concern

A review of available site history data and observations made during the site walkover indicated a number of areas of environmental concern (AEC) and contaminants of potential concern (COPC) may be present on the site. These AEC and COPC are presented in Table 1 and Figure 3.

Table 1 Areas of Environmental Concern and Contaminants of Potential Concern

| ID | AEC | Activity of Concern | Contaminants of Potential Concern |
|-------|---------------------------------------|--|--|
| AEC01 | Tennis court and immediate surrounds | Uncontrolled filling | Hydrocarbons, metals, asbestos, aesthetics |
| AEC02 | Horse shoe area of apartment building | Uncontrolled filling | Hydrocarbons, metals, asbestos, aesthetics |
| AEC03 | Former building footprint | Demolition | Metals, asbestos and aesthetics |
| AEC04 | Former building footprint | Demolition | Metals, asbestos and aesthetics |
| AEC05 | Lot 8 | Former commercial activities (Dairy Farmers, blacksmith and ice storage) | Hydrocarbons, metals, asbestos, aesthetics |

5.2 Receptors and Pathways

5.2.1 Proposed Land Use Scenario

It is understood that the proposed redevelopment concept for the site includes the following:

- Two to three basement levels of vehicle parking across the majority of the site footprint;
- High density residential units; and
- A ground floor child care facility.

Based on this redevelopment concept, it is considered reasonable to adopt a 'low density residential' land use exposure scenario with access to soils (to accommodate the more sensitive land use of child care facility), for a contamination exposure assessment.

5.2.2 Human Health – Direct Contact

It is considered appropriate to assess whether a direct contact exposure risk for low density residential occupants may be present on the site.

5.2.3 Human Health – Inhalation / Vapour Intrusion

It is considered appropriate to assess whether an inhalation (vapour intrusion) exposure risk for low density residential occupants may be present on the site.

5.2.4 Aesthetics

No visual evidence of widespread or significant staining was observed on the hardstand surface of the site. While it is considered that the ground floor development concept would prevent receptor visual exposure to potential sub surface visual aesthetic impacts, an assessment for the presence of malodorous sub surface soils on the site should be made.

5.2.5 Ecological – Terrestrial Ecosystems

NEPC (1999) requires a pragmatic risk-based approach should be taken in applying ecological investigation and screening levels in residential and commercial / industrial land use settings.

It is noted that the redevelopment concept will include demolition of existing site improvements, excavation of two to three basement levels across the majority of the site and construction of multistorey buildings across much of the site, which will likely result in removal of a large portion of current soils on site to depths of six to nine metres below current ground level. It is therefore considered that this limits the environmental values that require consideration (i.e. support of plant growth) in the context of current site soils. It is also noted that SLR (2015) reported that no evidence of phytotoxic impact was observed on site.

Further assessment of unacceptable risk to terrestrial ecosystems is considered not warranted.

5.2.6 Drinking Water

There are no registered drinking water bores in the area and a reticulated drinking water is present in the area that the site is located in.

Further assessment of this groundwater value at the site is considered not warranted.

5.2.7 Recreational Water Use

The nearest hydraulically down gradient surface water for the site is considered to be Alexandra Canal.

There are no surface water bodies present on the site. It is considered likely that groundwater on the site would flow towards the east and/or north, towards the surface water body of Gordon Creek, which is unlikely to be used for swimming, boating or wading.

SLR considers that Gordon Creek is unlikely to be used for primary or secondary recreation purposes and is therefore not considered to be an environmental value.

Further assessment of recreational water use as a groundwater value is considered not warranted.

5.2.8 Agricultural (Irrigation and Stock Watering)

There are no registered groundwater bores onsite or down gradient of the site, registered for agricultural use. Regional urban development is considered likely to prevent agricultural activities being undertaken both on site and on surrounding land.

Further assessment of this groundwater value is considered not warranted.

5.2.9 Aquatic Ecosystems

The nearest likely aquatic ecosystem down gradient of the site is approximately 750m away (Gordon Creek, considered to be a freshwater environment in the upstream portion). Given the likely nature of potential contamination at the site and the significant distance of Gordon Creek from the site, it is considered that Gordon Creek is unlikely to be a material receptor of potential groundwater contamination from this site.

Further assessment of this groundwater value is considered not warranted.

6 DATA QUALITY OBJECTIVES

Data quality objectives (DQO) have been developed using the seven step processes described in

NSW DEC 2006, Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2nd edition).

6.1 Step 1 – State the Problem

The objectives are to:

- Assess the potential for unacceptable human health exposure risks to be present in the identified
 areas of environmental concern, in the context of land contamination and a high density
 residential, ground floor child care / residential and basement car parking land use scenario;
- Provide advice on the suitability of the site (in the context of land contamination) for the proposed land use scenario; and
- Provide recommendations for additional investigation, management or remediation of the site (if warranted).

The main problems are:

- How should relevant site media be assessed;
- What sampling layout should be used; and
- What contaminants should be analysed for and by what method to be useful for assessment.

6.2 Step 2 – Identify the Decision

The decisions that need to be made during this project include:

- Is the field and laboratory analytical data suitable for assessing the quality of the media being assessed;
- Does contamination in soils on the site present an unacceptable exposure risk for the adopted land use scenario; and
- Is the site suitable (in the context of land contamination) for the proposed redevelopment concept.

6.3 Step 3 – Identify Inputs to the Decision

The primary inputs to assessing the above include:

- the site history made available;
- location, distribution and intervals of sampling at the site;
- data collected during the assessment, including field measurements, field observations and laboratory analysis results;
- outcomes of the assessment of the quality of collected data;
- · adopted exposure risk assessment criteria.

Exposure risk assessment criteria will be adopted from:

- National Environment Protection Council (NEPC) 1999, 'Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM), as amended in 2013'.
- Friebel, E & Nadebaum, P 2011, 'Health screening levels for petroleum hydrocarbons in soil and groundwater, Part 2: Application document, CRC CARE Technical Report No. 10'.

6.3.1 Human Health - Direct Contact

The relevant direct contact:

- Health-Based Investigation Levels (HILs) for low density residential in Table 1A (1) in NEPC (1999); and
- Health Screening Levels (HSL) for low density residential listed in Table B4 of Friebel, E & Nadebaum, P (2011);

are adopted for this assessment.

6.3.2 Human Health – Inhalation / Vapour Intrusion

For the proposed land use exposure scenario, the relevant soil HSL for vapour intrusion listed in Table 1A (3) in NEPC (1999), are adopted for this assessment.

Should evidence of petroleum hydrocarbon contamination be identified in site soils (e.g. significant odours, elevated PID readings), then assessment of soil vapour intrusion risk should be considered (against soil vapour HSLs for vapour intrusion in Table 1A(5) in NEPC (1999)).

6.3.3 Human Health – Asbestos

NEPC (1999) provides health screening levels for asbestos contamination in soil, which are based on specific land use exposure scenarios, for three forms of asbestos: bonded asbestos containing material (ACM), friable asbestos (FA) and asbestos fines (AF). These health screening levels are provided in Table 2.

Table 2 Health Screening Levels for asbestos contamination in soil

| Form of asbestos | Health Screening Level (W/W) | | | |
|-----------------------|------------------------------|----------------|-----------------------|-----------------------|
| | Residential A | Residential B | Recreational C | Commercial/Industrial |
| ACM | 0.01% | 0.04% | 0.02% | 0.05% |
| FA and AF | | C | 0.001% | |
| All forms of asbestos | | No visible asb | estos in surface soil | |

The laboratory method for analysis of asbestos in bulk materials is based on AS 4964-2004. Consequently, a practical quantification limit equal to or less than 0.001% by weight is not adopted and the limit is 0.1g/kg (equivalent to 0.01% w/w). For the purposes of this project, criteria of "no visible asbestos containing materials in surface soils (top 10cm)" and "no asbestos fibres detected in samples using trace analysis techniques" has been adopted as initial screening criteria.

6.3.4 Petroleum Hydrocarbon Compounds – Management Limits

NEPC (1999) advises that management limits for petroleum hydrocarbon compounds need to be considered to minimise the potential effects of:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in ground services by hydrocarbons.

For the proposed land use exposure scenario, the management limits for commercial / industrial in Table 1 B(7) of NEPC (1999), are adopted for this project. Specific management limits (relevant to soil texture) will be adopted based on field assessment of predominant soil types encountered during intrusive investigations i.e. coarse grain (sands) versus fine grain (silts and clays).

6.3.5 Aesthetics

NEPC (1999) requires that aesthetic quality of accessible soils be considered even if testing suggests that the concentrations of contaminants of concern are within acceptable limits.

No specific numerical guidelines have been assigned for aesthetics. However the NEPM 2013 indicates that professional judgement with regard to quantity, type and distribution of foreign material and/or odours in relation to the specific land use and its sensitivity should be employed.

The following circumstances are considered likely to trigger further aesthetic assessment:

- highly malodorous soils or extracted groundwater (e.g. strong residual petroleum hydrocarbon odours, hydrogen sulphide in soil or extracted groundwater, organo-sulfur compounds);
- hydrocarbon sheen on surface water;
- discoloured chemical deposits or soil staining with chemical waste other than of a very minor nature;
- large monolithic deposits of otherwise low risk material, e.g. gypsum as powder or plasterboard, cement kiln dust:
- presence of putrescible refuse including material that may generate hazardous levels of methane; and
- soils containing residue from animal burial.

There are no specific numeric aesthetic guidelines, however site assessment requires balanced

- consideration of the quantity, type and distribution of foreign material or odours in relation to the
- specific land use and its sensitivity. For example, higher expectations for soil quality would apply to
- residential properties with gardens compared with industrial settings.

General assessment considerations will include:

- that chemically discoloured soils or large quantities of various types of inert refuse particularly if unsightly, may cause ongoing concern to site users;
- the depth of the materials, including chemical residues, in relation to the final surface of the site;
 and
- the need for, and practicality of, any long-term management of foreign material.

In some cases, documentation of the nature and distribution of the foreign material may be sufficient to address concerns relating to potential land use restrictions.

In arriving at a balanced assessment, the presence of small quantities of non-hazardous inert material and low odour residue (for example, weak petroleum hydrocarbon odours) that will decrease over time will not be a cause of concern or limit the use of a site in most circumstances. Similarly, sites with large quantities of well-covered known inert materials that present no health hazard such as brick fragments and cement wastes (for example, broken cement blocks) will be of low concern for the proposed land use scenario.

However, caution will be applied when assessing large quantities of various fill types and demolition rubble are present.

6.4 Step 4 – Define the Study Boundaries

6.4.1 Spatial Boundaries

The horizontal boundary of the project is defined by the boundary of the site.

The vertical boundary of the project for soils is defined by the depth of potentially impacted material.

6.4.2 Temporal Boundaries

The temporal boundaries of investigation works will be limited by:

- natural daylight working hours; and
- levels of precipitation which, in the opinion of the environmental consultant, prevents adequate visual observations to be made.

6.5 Step 5 – Develop a Decision Rule

The decision rules for the project will be as follows:

- If the results of the laboratory analytical data and field data quality assessment are acceptable
 (i.e. comply with the procedures, requirements and limits set out in Section 6.6, then the data
 will be considered suitable for the purposes of the project. Data will be assessed for
 completeness, comparability, representativeness, precision and accuracy.
- If the results of the laboratory analytical data are within the adopted assessment criteria and fieldwork observations are acceptable, then the level of contamination in the media assessed will be considered an acceptable exposure risk.

Specifically, a series of if/then statements specific to each area requiring assessment, is presented in Table 3.

Table 3 Decision Rule If/Then Statements

| ID | Decision Rule If/Then Statements | |
|-------|--|--|
| AEC01 | If analytical results and field observations are less than adopted assessment criteria, then contamination related exposure risks are considered acceptable. | |
| AEC02 | If analytical results and field observations are less than adopted assessment criteria, then contamination related exposure risks are considered acceptable. | |
| AEC03 | If analytical results and field observations are less than adopted assessment criteria, then contamination related exposure risks are considered acceptable. | |
| AEC04 | If analytical results and field observations are less than adopted assessment criteria, the contamination related exposure risks are considered acceptable. | |
| AEC05 | If analytical results and field observations are less than adopted assessment criteria, then contamination related exposure risks are considered acceptable. | |

If the results of laboratory analytical data exceed the adopted assessment criteria or the fieldwork observations are unacceptable, then the level of contamination in the media assessed may require further assessment, management or remediation.

6.6 Step 6 – Specify Acceptable Limits on Decision Errors

There are two types of error:

- deciding that contamination on the site is an acceptable risk for the proposed land use when it is not; and
- deciding that contamination on the site is not an acceptable risk for the proposed land use when
 it is.

The assessment will aim to conclude with 95% confidence that media in the identified areas of environmental concern do not present an unacceptable risk. Consequently, the 95% upper confidence limit (UCL) statistic will be used to assess the mean concentrations of chemicals of potential concern in soil (where appropriate).

Confidence in the reliability of assessment methods (e.g. field observations, laboratory analysis and data review) will be based on appropriate levels of qualification and/or experience in the personnel undertaking the relevant task.

The data quality indicators set out in Table 4 will be used to assess data for completeness, comparability, representativeness, precision and accuracy.

Table 4 Data Quality Indicators

| Completeness | | |
|--|--|--|
| Field Considerations | Laboratory Considerations | |
| All critical locations sampled | All critical samples analysed in accordance with the data quality objectives | |
| All samples collected (from grid and at depth) SOPs appropriate and complied with | All analytes analysed in accordance with the data quality objectives | |
| Experienced sampler | Appropriate methods and LORs | |
| Documentation correct | Sample documentation complete | |
| | Sample holding times complied with | |
| | | |
| Comparability | | |
| Field Considerations | Laboratory Considerations | |
| Same SOPs used on each occasion | Sample analytical methods used (including clean-up) | |
| Experienced sampler | Sample LORs (justify/quantify if different) | |
| Climatic conditions | Same laboratories (justify/quantify if different) | |
| (temperature, rainfall, wind) | Same units (justify/quantify if different) | |
| Same types of samples collected (filtered, size fractions) | | |
| | | |
| Representativeness | | |
| Field Considerations | Laboratory Considerations | |
| Appropriate media sampled in accordance with the data quality objectives | All samples analysed in accordance with the data quality objectives | |
| All media identified in data quality objectives sampled | | |

| Precision | |
|------------------------------------|--|
| Field Considerations | Laboratory Considerations |
| SOPs appropriate and complied with | Analysis of: |
| | laboratory and inter-laboratory duplicates |
| | • field duplicates |
| | laboratory-prepared volatile trip spikes |
| Accuracy (bias) | |
| Field Considerations | Laboratory Considerations |
| SOPs appropriate and complied with | Analysis of: |
| | • field blanks |
| | • rinsate blanks |
| | • reagent blanks |
| | • method blanks |
| | • matrix spikes |
| | matrix spike duplicates |
| | • surrogate spikes |
| | • reference materials |
| | • laboratory control samples |
| | laboratory-prepared spikes |

6.7 Step 7 – Optimise the Design for Obtaining Data

6.7.1 Sampling Frequency and Locations

The site covers an area of approximately 5,800m². NSW EPA 1995, 'Contaminated Sites: Sampling Design Guidelines' recommends a minimum of fifteen systematic sampling points to characterise a site of this size. However, given the identified AEC for the site are considered to cover just under two thirds of the site, a reduced sampling point density of thirteen sampling points with a bias towards the identified AEC, is considered appropriate.

6.7.2 Sampling Methodology

6.7.2.1 Soil Test Pits and Boreholes

Test pits and boreholes will be excavated/drilled on site in accordance with the methodology presented in Table 5. Methodology and target depths are based on a number of factors including:

- Contaminant laydown mechanisms;
- Contaminant types;

- · Likely depth of contamination; and
- Constraints of plant and equipment.

Table 5 Proposed Soil Borehole Drilling Summary

| Sampling Point ID | Sampling Method | Target Depth |
|----------------------|-----------------------------------|---|
| TP01 – TP08 | Track mounted hydraulic excavator | Up to 1.5m below ground surface or 0.3m into natural material, whichever occurs first |
| HA01 | Hand auger | Up to 1.5m below ground surface or 0.3m into natural material, whichever occurs first |
| HA02 – HA05 | Concrete corer and hand auger | Up to 1.5m below ground surface or 0.3m into natural material, whichever occurs first |

6.7.2.2 Soil Sampling

Soil samples will be collected from each sampling point at the surface and then at regular depths thereafter, or where there is evidence of contamination or a change in soil lithology. Materials encountered during sampling will be logged in general accordance with the Unified Soil Classification System (UCS).

6.7.3 Soil Headspace Screening

Soil samples will be screened in the field for ionisable volatile organic compounds (VOC) using a calibrated photo-ionisation detector (PID). Screening results will be recorded on the relevant log.

6.7.4 Photographic Records

Photographs of test pits and other features of interest relevant to the assessment will be taken.

6.7.5 Location Records

The location of each sampling point will be recorded by hand on a site plan.

6.7.6 Sample Identification, Storage and Transport Procedures

Samples will be identified using unique sampling point identifiers and sample depth intervals (e.g. HA03/0.6-0.8 or TP01/0.0-0.2).

Samples will be placed in laboratory prepared containers and zip lock bags, as appropriate. The sample containers will then be placed directly into an insulated chest containing ice, for transportation to the NATA accredited analytical laboratory with the chain of custody (COC) form recording the following information:

- project job number;
- date of sampling;
- sample identifier;
- sample matrix and container type;
- preservation methods used;
- analysis requirements for each sample;
- turnaround times required for analysis; and

names and signatures of sender and receiving laboratory.

A copy of the chain of custody will be kept in the job file. Samples will be transported to the laboratory with sufficient time to perform analysis within the applicable holding period.

The proposed sample storage and preservation requirements for the likely contaminants of potential concern are presented in Table 6.

Table 6 Soil Sample Storage and Preservation Requirements

| Analyte | Sample Volume and Container Type | Sample Container Preservative | Storage and Transport |
|--------------|----------------------------------|-------------------------------|-----------------------------|
| TRH C6-C10 | 1 x 250mL glass | Nil | Ice and insulated container |
| TRH >C10-C40 | 1 x 250mL glass | Nil | Ice and insulated container |
| BTEX | 1 x 250mL glass | Nil | Ice and insulated container |
| VOC | 1 x 250mL glass | Nil | Ice and insulated container |
| PAH | 1 x 250mL glass | Nil | Ice and insulated container |
| Phenol | 1 x 250mL glass | Nil | Ice and insulated container |
| PCB | 1 x 250mL glass | Nil | Ice and insulated container |
| OCP | 1 x 250mL glass | Nil | Ice and insulated container |
| Metals | 1 x 250mL glass | Nil | Ice and insulated container |
| Asbestos | 1 x 50-100g zip lock bag | Nil | Nil |

6.7.7 Laboratory Analysis

Selected samples will be scheduled for analysis, based on identified contaminants of potential concern for the AEC that the sampling point is located in, field observations and headspace screening results, up to the quantities presented in Table 7.

Table 7 Laboratory Analytical Quantities

| Sampling Point ID | TRH/BTEX | PAH | ОСР | Metals | Asbestos |
|-------------------|----------|-----|-----|--------|----------|
| TP01 | | 1 | 1 | 2 | 1 |
| TP02 | 1 | 2 | | 1 | 1 |
| TP03 | 1 | 1 | | 2 | 1 |
| TP04 | | | 1 | 2 | 1 |
| TP05 | 1 | 2 | | 2 | 1 |
| TP06 | 1 | 3 | | 2 | 1 |
| TP07 | 1 | 2 | 1 | 3 | 1 |
| TP08 | 1 | 3 | 1 | 2 | 1 |
| HA01 | 1 | 1 | 1 | 2 | 1 |
| HA02 | | 1 | | 2 | 1 |
| HA03 | 1 | 2 | | 3 | 1 |
| HA04 | 1 | 1 | | 2 | 1 |
| HA05 | | | | 2 | 1 |

In the event that field screening of soil samples identifies a potential for contamination to be present beyond that which can be assessed with the analytical quantities nominated in Table 7, analysis of additional soil samples (or additional analytes) will be considered.

6.7.8 Fieldwork Quality Assurance / Quality Control

6.7.8.1 Decontamination Procedures

Non-disposable sampling equipment will be decontaminated before and between sampling events to reduce the potential for cross contamination to occur between samples. Decontamination will include the following procedure:

- washing non-disposable sampling equipment in a solution of phosphate free detergent (e.g. Decon 90) and potable water; and
- · rinsing with distilled water.

6.7.8.2 Intra-laboratory Duplicates

Intra-laboratory field duplicates will be collected on an average frequency of one sample per twenty samples collected (5%), with a minimum of one per batch (excluding samples collected for asbestos analysis). The analytical results of the two spilt samples will be compared to assess the precision of the sampling protocol, and provide an indication of variability in the sample source. The relative percentage difference (RPD) acceptance limits will be:

- No limit analytical results <10 times LOR
- 50% analytical results 10-20 times LOR
- 30% analytical results >20 times LOR

The RPD exceedances (if any) will be assessed to determine whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.8.3 Inter-Laboratory Duplicates

Inter-laboratory field duplicates will be collected on an average frequency of one sample per twenty samples collected (5%) with a minimum of one per batch (excluding samples collected for asbestos analysis). The analytical results of the two spilt samples will be compared to assess the precision of the sampling protocol, and provide an indication of variability in the sample source. The relative percentage difference (RPD) acceptance limits will be:

- No limit analytical results <10 times LOR
- 50% analytical results 10-20 times LOR
- 30% analytical results >20 times LOR

The environmental consultant will assess RPD exceedances (if any) and whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.8.4 Rinsate Samples

A rinsate sample will be collected and analysed for each day of field work carried out, where non-disposable sampling equipment has been used. The rinsate sample will be analysed for generally the same contaminants of potential concern that the samples are being analysed for (excluding asbestos).

The acceptance limit shall be the detected concentrations of the contaminants of concern analysed for in the sample, are less than the applicable LOR. The environmental consultant will assess the significance of the acceptance limit exceedance and whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.8.5 Trip Blanks

Trip blanks will be used and analysed for a batch of samples provided to the laboratory, where the contaminants being analysed for, are volatile in nature (e.g. BTEX or TPH C_6 - C_{10}). The trip blank will be analysed for BTEX.

The acceptance limit shall be the detected concentrations of BTEX in the trip blank, are less than the applicable LOR. The environmental consultant will assess the significance of acceptance limit exceedances and whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.8.6 Trip Spikes

Trip spikes will be used and analysed for a batch of samples provided to the laboratory, where the contaminants being analysed for, are volatile in nature (e.g. BTEX or TPH C_6 - C_{10}). The trip spike will be analysed for BTEX.

The acceptance limit shall be the BTEX recoveries in the trip spike are between 60% and 140%. The environmental consultant will assess the significance of acceptance limit exceedances and whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.9 Laboratory Quality Assurance / Quality Control

6.7.9.1 Laboratory Selection

The primary and secondary laboratories used for this project will be NATA-accredited for the analyses being undertaken.

6.7.9.2 Laboratory Data Quality Indicators

The laboratory data quality will be assessed by checking the following:

- laboratory methods used are NATA accredited;
- laboratory limits of reporting are less than adopted assessment criteria;
- samples are extracted and analysed within holding times; and
- results of method blanks, surrogate, lab control sample, spike recoveries relative percentage differences (RPDs) between primary and duplicate laboratory samples.

Data Quality Indicators (DQI) that will be adopted for quality control samples are presented in Table 8.

Table 8 Laboratory Data Quality Indicators

| Type of Quality Control Sample | Control Limit | Control Limit | |
|--------------------------------|---|-------------------------|--|
| Method Blank | Analytical result < LOR | | |
| Surrogate % Recovery | 50% - %150% | | |
| Labe Control Sample % Recovery | 70% - 130% | | |
| Spike % Recovery | 70% - 130% for inorganics | • | |
| | 60% - 140% for organics | 60% - 140% for organics | |
| RPD | No limit Analytical results <10 times LOR | | |
| | 50% Analytical results 10-20 times LOR | | |
| | 30% Analytical results >20 times LOR | | |

Should the results of a laboratory quality control sample exceed the relevant adopted control limit, the laboratory will be requested assess the significance of the exceedance on the quality of the laboratory analytical data for the relevant batch. The environmental consultant will assess the significance of the control limit exceedance and whether the project DQO's can still be addressed. If not, then further sampling and/or analysis may be required.

6.7.9.3 Laboratory Limits of Reporting, Analytical Methods and Holding Times

Laboratory limits of reporting, analytical methods and holding times are presented in Table 9.

Table 9 Limits of Reporting, Methods and Holding Times

| Analyte | Limit of Reporting (mg/kg) | Method | Holding Time |
|---------------------|----------------------------|-------------------------------|--------------|
| BTEX and TRH C6-C10 | 0.2-0.5 | USEPA 5030, 8260B and 8020 | 14 days |
| TRH >C10-C40 | 20-100 | USEPA 8015B & C | 14 days |
| PAH | 0.1-0.2 | USEPA 8270 | 14 days |
| VOC | 0.1-0.5mg/kg | USEPA8260 | 14 days |
| OCP | 0.2 | USEPA 8081 | 14 days |
| PCB | 0.2 | USEPA 8270 | 14 days |
| Phenol | 0.1 | APHA 4500 P | 14 days |
| Metals | 1 | USEPA 200 | 6 months |
| OCP | 0.2 | USEPA 8081 | 14 days |
| Asbestos | Presence / Absence | AS4964:2004 | No limit |

6.8 Reporting

A stage 2 detailed site investigation report will be prepared in accordance with the relevant sections of NSW OEH 2011, 'Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites', and will include the following:

- · Executive summary;
- · Scope of work;
- Site identification;
- Site history summary;
- Site condition and surrounding environment summary;
- Information on geology and hydrogeology;
- · Field and laboratory analytical data;
- Field and laboratory data QA/QC assessment;
- · Site characterisation; and
- · Conclusions and recommendations.

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7 FIELDWORK

7.1 Soil Sampling

Soil sampling was undertaken on 6 December 2015. A total of thirteen soil sampling points were set out for the site (TP01 to TP07 and HA01 to HA06).

Test pits were excavated by Ken Coles Excavations Pty Ltd, using a tracked 3.5 tonne hydraulic excavator fitted with a 300mm wide bucket.

Soil bores were drilled by SLR Consulting using a stainless steel hand auger. Concrete core drilling (where required) was undertaken by Concut (NSW) Pty Ltd.

Soil samples were collected from surface soils (or directly beneath the slab), and at regular intervals thereafter, or where there was visual or olfactory evidence of contamination observed.

Collected samples were placed into laboratory prepared jars (with Teflon lined lids) and zip lock bags. Jars and bags were labelled with a project number, sampling point and depth interval, and the date. Samples were placed in insulated containers with ice during storage on site and transport to the laboratory.

The location of each sampling point was recorded on a site plan and these locations are presented in Figure 4.

7.2 Site Specific Geology

Observations of soils encountered at each borehole location were recorded and are presented in logs in Appendix B.

7.2.1 Fill Material

Fill material (including topsoils) was encountered in boreholes to depths ranging from 0.3m below ground level to at least 1.1m below ground level.

Details of fill soils encountered are included in the test pit and borehole logs presented in Appendix B. Fill soils encountered in boreholes were primarily comprised of silty SAND, clayey SAND, CLAY, gravelly SAND, gravelly CLAY and silty GRAVEL.

Anthropogenic materials encountered in the fill material generally included ash, slag gravels, sandstone gravels, trace glass, trace metal, trace concrete.

7.2.2 Natural Material

Natural material was encountered in test pits starting at depths ranging from 0.3m to 1.1m below ground surface.

Details of natural materials encountered are included in the test pit and bore hole logs presented in Appendix B. Natural materials encountered in test pits were primarily comprised of CLAY and silty CLAY.

7.3 Odours

Olfactory evidence of odours in soil during the sampling works, were not encountered.

7.4 Staining

Visual evidence of staining in the soil samples collected was not observed.

7.5 Groundwater

Visual evidence of groundwater in the boreholes drilled was not encountered.

7.6 Potential Asbestos Containing Materials

Visual evidence of potential asbestos containing materials (ACM) in the soil samples collected was not encountered.

7.7 Headspace Screening

Headspace screening was undertaken on the samples collected and the results are presented in the test pit and borehole logs in Appendix B. Headspace screening results generally ranged from 0.0ppm to 6.3ppm. The results of the headspace screening indicated a low to negligible potential for ionisable volatile organic compounds to be present in the soils encountered.

8 LABORATORY ANALYSIS

A selection of soil samples were scheduled for laboratory analysis, based on field observations and the contaminants of potential concern identified for the relevant areas of environmental concern (refer to Section 6.7.7).

Copies of the laboratory certificates of analysis are presented in Appendix C.

Tabulated laboratory analytical results are presented in Table LR1.

9 QUALITY ASSURANCE / QUALITY CONTROL

9.1 Fieldwork

9.1.1 Sampling

The sampling was undertaken

- in accordance with SLR's standard operating procedures (SOP). These procedures are based on accepted industry practice for projects of this kind; and
- by a suitably experienced SLR environmental consultant (Craig Cowper);

It is noted that sampling point TP08 (proposed to be a test pit) was changed to a borehole (HA06) as a due to nature and extent of underground services in the vicinity of this sampling point.

The appropriate media (soil) was sampled.

All critical soil sampling points were sampled.

Target sampling depths were achieved at each sampling point, with the exception of sampling points HA01 (auger refusal at 0.5), HA04 (auger refusal at 0.6m) and HA06 (auger refusal at 1.1m). Natural material was not encountered at these three sampling points. The potential for uncharacterised fill material to be present at these sampling points, cannot be precluded.

9.1.2 Sample Identification, Storage and Transport

Soil samples were placed in acid rinsed glass jars with Teflon lined lids and zip lock plastic bags, and stored in skies with ice, for transportation to the analytical laboratory, under chain of custody (COC) protocol. The following information was recorded on the COC:

- project job number;
- date of sampling;
- sample identifier;
- sample matrix and container type;
- preservation methods used;
- analysis requirements for each sample;
- · turnaround times required for analysis; and
- names and signatures of sender and receiving laboratory.

Sample receipt advice from the receiving laboratories confirmed that the samples were received chilled (or an attempt to chill the samples was made).

A copy of the chain of custody documentation is presented in Appendix C for both the primary laboratory and the secondary laboratory.

9.1.3 Field Duplicates

A total of 30 primary soil samples were schedule for chemical analysis for the project.

Two intra-laboratory duplicates were collected and analysed (a rate of 7% which addresses the minimum acceptance criterion of 5%).

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Two inter-laboratory duplicates were collected and analysed (a rate of 7% which addresses the minimum acceptance criterion of 5%).

The parent / duplicate sample relationships and associated laboratory analytical data, is presented in Table LR3.

The relative percentage difference (RPD) between the parent sample and duplicates analysed, were within the RPD acceptance criteria, with the following exceptions:

- DUP01 (parent sample TP07/0.0-0.2) had exceeding RPDs for copper and nickel. These
 exceedances of the adopted RPD assessment criteria are considered likely attributable to
 heterogeneity within the discrete fill soil sample (rather than sampling or laboratory analysis
 error), as the samples were not able to be homogenised prior to splitting, due to the potential for
 volatile contaminants to be present in this AEC. The concentrations of copper and nickel both
 the parent and duplicate samples, we were well below the adopted investigation criteria for this
 project; and
- DUP01A (parent sample TP07/0.0-0.2) had exceeding RPDs for arsenic, copper and lead.
 These exceedances of the adopted RPD assessment criteria are considered likely attributable
 to heterogeneity within the discrete fill soil sample (rather than sampling or laboratory analysis
 error), as the samples were not able to be homogenised prior to splitting, due to the potential for
 volatile contaminants to be present in this AEC. The concentrations of copper and nickel both
 the parent and duplicate samples, we were well below the adopted investigation criteria for this
 project.

9.1.4 Trip Spike and Trip Blank

One trip spike and one trip blank was used during the fieldwork and scheduled for BTEXN analysis. The spike and blank sample were receipted by the laboratory. Both the spike and blank were subsequently misplaced by the laboratory and were not able to be analysed.

Samples were stored and transported from the site to the laboratory using industry standard methods (in an insulated container with ice). A review of sample receipt advice indicated that the samples were received at a temperature of 6.9°C. Based on this information, SLR considers that the sample preservation procedures were adequate and the potential for volatile losses from the soil samples during transport and storage is considered to be low to negligible.

A review of the laboratory analytical results indicated that volatile contaminants (e.g. BTEX and VOC) were not unexpectedly detected in the soil samples. The detection of TRH >C10-C16 in sample BH04/1.8-2.0 was not unexpected, given the observation of hydrocarbon odour in this sample and the elevated PID result for this sample. Based on this information, SLR considers that the potential for cross contamination of volatile contaminants between samples, during storage and transport, was negligible.

9.1.5 Rinsate Blanks

A rinsate blank sample (RB01) was collected off the hand auger head and submitted for laboratory analysis. The analyte concentrations in the rinsate sample were less than the laboratory limit of reporting, indicating that decontamination procedures of non-disposable sampling equipment were adequate. The results of the rinsate analysis are presented in Appendix C.

9.1.6 Calibration

One photoionisation detector (PID) was used during the fieldwork. A copy of the daily calibration record for the PID is presented in Appendix D.

9.2 Laboratory

Copies of the laboratory certificates of analysis, data quality objective reports, sample receipt advice and chain of custody records for the primary and secondary laboratories are presented in Appendix C.

The results of an assessment of laboratory analytical data quality indicate that:

- Laboratory analysis of the samples was undertaken by NATA accredited environmental testing laboratories (SGS Environmental, Alexandria NSW and Eurofins MGT, Lane Cove West NSW);
- The identified contaminants of potential concern were analysed for;
- The laboratory analytical methods and laboratory limits of reporting were appropriate for the objective of this project;
- The laboratory analytical methods and laboratory limits of reporting were consistent between the primary and secondary analytical laboratories;
- The same analytical laboratory was used for analysing all primary samples;
- The same analytical laboratory was used for analysing all secondary samples;
- Samples were extracted and analysed within applicable laboratory holding times;
- The laboratory sample surrogate recoveries were within laboratory acceptance criteria;
- The laboratory method blank analytical results were less than the laboratory limit of reporting;
- The relative percentage differences (RPD) between samples and laboratory prepared duplicates, were within the laboratories adopted acceptance criteria, with the following exceptions:
 - two metal analytes in SGS batch SE146852. The laboratory reported that these exceedances failed acceptance criteria due to sample heterogeneity;
- The laboratory control sample recoveries were within the laboratory's adopted acceptance criteria;
- The laboratory matrix spike recoveries were within the laboratory's adopted acceptance criteria, with the following exceptions:
 - Two PAH analytes in SGS batch SE146852. The laboratory reported that recovery failed acceptance criteria due to sample heterogeneity.

A copy of the laboratory data quality indicators is presented in Appendix C.

9.3 Data Quality Indicators

The assessment of field and laboratory data was compared to the data quality indicators adopted for the project. This assessment is presented in Table 10.

Table 10 Data Quality Indicator Assessment Results

| Completeness | | |
|----------------------|---------------------------|---------|
| Field Considerations | Laboratory Considerations | Comment |

| All critical locations sampled | All critical samples analysed in accordance with the data quality | Acceptable |
|--|---|--------------------|
| All samples collected (from grid and at depth) | objectives | |
| SOPs appropriate and complied with | All analytes analysed in accordance with the data quality objectives | |
| Experienced sampler | Appropriate methods and LORs | |
| Documentation correct | Sample documentation complete Sample holding times complied with | |
| | | |
| Comparability | | |
| Field Considerations | Laboratory Considerations | Comment |
| Same SOPs used on each occasion | Sample analytical methods used (including clean-up) | Acceptable |
| Experienced sampler | Sample LORs (justify/quantify if different) | |
| Climatic conditions (temperature, rainfall, wind) | Same laboratories (justify/quantify if different) | |
| Same types of samples collected (filtered, size fractions) | Same units (justify/quantify if different) | |
| iractions) | | |
| | | |
| Representativeness | , | Comment |
| | Laboratory Considerations | Comment |
| Representativeness | , | Comment Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data | Laboratory Considerations All samples analysed in accordance | |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled | Laboratory Considerations All samples analysed in accordance | |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision | Laboratory Considerations All samples analysed in accordance with the data quality objectives | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled | Laboratory Considerations All samples analysed in accordance | |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision | Laboratory Considerations All samples analysed in accordance with the data quality objectives | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision Field Considerations SOPs appropriate and | Laboratory Considerations All samples analysed in accordance with the data quality objectives Laboratory Considerations | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision Field Considerations SOPs appropriate and | Laboratory Considerations All samples analysed in accordance with the data quality objectives Laboratory Considerations Analysis of: Iaboratory and inter laboratory | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision Field Considerations SOPs appropriate and | Laboratory Considerations All samples analysed in accordance with the data quality objectives Laboratory Considerations Analysis of: Iaboratory and inter laboratory duplicates | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision Field Considerations SOPs appropriate and complied with | Laboratory Considerations All samples analysed in accordance with the data quality objectives Laboratory Considerations Analysis of: Iaboratory and inter laboratory duplicates Ield duplicates Iaboratory-prepared volatile trip | Acceptable |
| Representativeness Field Considerations Appropriate media sampled in accordance with the data quality objectives All media identified in DQO sampled Precision Field Considerations SOPs appropriate and | Laboratory Considerations All samples analysed in accordance with the data quality objectives Laboratory Considerations Analysis of: Iaboratory and inter laboratory duplicates Ield duplicates Iaboratory-prepared volatile trip | Acceptable |

| SOPs appropriate complied with | and | Analysis of: | Acceptable |
|--------------------------------|-----|----------------------------|------------|
| | | • field blanks | |
| | | • rinsate blanks | |
| | | • reagent blanks | |
| | | • method blanks | |
| | | matrix spikes | |
| | | matrix spike duplicates | |
| | | surrogate spikes | |
| | | reference materials | |
| | | laboratory control samples | |
| | | laboratory-prepared spikes | |
| | | | |

The data is therefore considered to be adequately complete, comparable, representative, precise and accurate for the purpose of interpretation within the objective of this project. However, it is noted that the potential for uncharacterised fill material to be present at sampling points HA01, HA04 and HA06 cannot be precluded. This uncertainty must be considered when drawing conclusions about the contamination status of the site.

10 DISCUSSION

A laboratory analytical data summary table for this investigation is presented in the attached Table LR1. The data contained in that summary table has been used for the purposes of assessing the contamination status of the site, in the context of the proposed land use scenario.

10.1 Human Health - Direct Contact Exposure Risks (Soils)

10.1.1 BTEX

The concentrations of benzene, toluene, ethyl benzene and xylenes in the site investigation samples analysed were less than the adopted investigation criteria.

Further assessment, management or remediation of BTEX direct contact exposure risks in soil at the site is considered not warranted.

10.1.2 TRH

The concentrations of TRH C6-C10, TRH >C10-C16, TRH >C16-C34 and TRH >C34-C40 in the site investigation samples analysed were less than the adopted investigation criteria.

Further assessment, management or remediation of TRH direct contact exposure risks in soil at the site is considered not warranted.

10.1.3 PAH

The concentrations of relevant PAH compounds in the site investigation samples analysed were less than the adopted investigation criteria, with the exception of carcinogenic PAH as benzo(a)pyrene TEQ (tier 1 screening criterion of 3 mg/kg) in:

- 3.8mg/kg in sample TP01/0.0-0.2;
- 3.1mg/kg in sample TP06/0.5-0.7;
- 3.5mg/kg in sample TP07/0.7-0.9; and
- 3.5mg/kg in sample HA06/0.5-0.7.

It is noted that carcinogenic PAH (including a range of PAH compounds) was detected in sample HA03/0.7-0.9. This sample was collected from inferred natural material. However, the presence of PAH compounds could indicate that the inferred natural material may have been fill material.

Further assessment, management or remediation of PAH compounds direct contact exposure risks in soil at the site is considered warranted.

10.1.4 Organochlorine Pesticides (OCP)

The concentrations of relevant OCP compounds in the site investigation samples analysed were less than the adopted investigation criteria.

Further assessment, management or remediation of OCP compounds direct contact exposure risks in soil at the site is considered not warranted.

10.1.5 Metals

The concentrations of metals in the site investigation samples analysed were less than the adopted investigation criteria, with the exception of lead (Tier 1 screening criterion of 300mg/kg) in the following samples:

- 400mg/kg in TP01/0.0-0.2; and
- 340mg/kg in TP07/0.7-0.9.

Further assessment, management or remediation of lead direct contact risks in soil at the site is considered warranted.

10.1.6 Asbestos

No respirable fibres were detected in the samples analysed using trace analysis techniques.

Further assessment, management or remediation of asbestos in soils at the site is considered not warranted.

10.2 Human Health – Vapour Intrusion (Soils)

10.2.1 Soil Sample Ionisable Volatile Organic Compounds

The results of the headspace screening indicated a low potential for ionisable volatile organic compounds to be present in the soils encountered.

10.2.2 BTEX

The concentrations of benzene, toluene, ethyl benzene and xylenes in the site investigation samples analysed were less than the adopted investigation criteria.

Further assessment, management or remediation of BTEX vapour intrusion risks in soil at the site is considered not warranted.

10.2.3 TRH

The concentrations of TRH C6-C10 (F1) and TRH >C10-C16 (F2) in the site investigation samples analysed were less than the adopted investigation criteria.

Further assessment, management or remediation of TRH vapour intrusion risks in soil at the site is considered not warranted.

10.3 TRH Management Limits (Soils)

The concentrations of TRH C6-C10, TRH >C10-C16, TRH >C16-C34 and TRH >C34-C40 in the site investigation samples analysed were less than the adopted management limit investigation criteria).

On this basis, further assessment, management or remediation of TRH in the context of

- The formation of observable light non-aqueous phase liquid (LNAPL);
- · Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons,

is considered not warranted.

10.4 Aesthetics (Soils)

Evidence of widespread or significant staining, buried wastes, odour or potential asbestos containing materials, was not observed in the soils encountered during drilling works. Further assessment, management or remediation of these potential aesthetic impacts on site is considered not warranted.

11 CONCLUSIONS AND RECOMMENDATIONS

Based on a review of the available desktop search data, observations made during fieldwork, and the results of sample laboratory analysis (in the context of the proposed masterplan redevelopment land use scenario at the site), SLR makes the following conclusions:

- The detected concentrations of the identified contaminants of potential concern in soils in the
 areas of environmental concern on the site, are considered unlikely to present an unacceptable
 soil vapour or vapour intrusion human health exposure risk;
- The detected concentrations of the identified contaminants of potential concern in soils in the
 areas of environmental concern on the site, are considered unlikely to present an unacceptable
 direct contact human health exposure risk, with the exception of lead at sampling point TP01 and
 TP07, and carcinogenic PAH (as benzo(a)pyrene TEQ) at sampling points TP01, TP06, TP07
 and HA06;
- The potential for unacceptable contamination human health exposure risks to be present in uncharacterised fill soils in the vicinity of sampling points HA01, HA04 and HA06, cannot be precluded;
- It is considered that the site could be made suitable for the proposed land use scenario, subject to:
 - further assessment and management/remediation (if warranted) of identified lead and carcinogenic PAH impacts in soil, taking into consideration future detailed design of the proposed development;
 - addressing uncertainty around fill material in the vicinity of sampling points HA01, HA04 and HA06, taking into consideration future detailed design of the proposed development, and the limitations of undertaking further investigations while underground services are still present in the vicinity of HA06:
- In the event that management and/or remediation of lead or carcinogenic PAH in soils is required, there are well established and industry accepted methods available for addressing this form of contamination. Management and/or remediation options could include in-situ containment, ex-situ containment, or offsite disposal;
- Hazardous materials including but not limited to asbestos, that may be present in structures on
 the site, should be appropriately managed / removed, and appropriate clearances obtained from
 a suitably experienced occupational hygienist or environmental consultant, before demolition of
 those structures. This will assist in mitigating potential for future land contamination to occur
 during demolition, which can happen if hazardous materials are not managed appropriately; and
- Further contamination assessment works at the site should be undertaken by a suitable experienced environmental consultant.

This report must be read in conjunction with the limitations set out in Section 13 of this report.

12 REFERENCES

Friebel, E & Nadebaum, P 2011, 'Health screening levels for petroleum hydrocarbons in soil and groundwater. Part 2: Application document', CRC CARE Technical Report No. 10.

National Environment Protection Council (NEPC) 1999a, 'Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) as amended in May 2013'.

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NSW OEH 2011, 'Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites'.

SLR Consulting 2015, 'Stage 1 Preliminary Site Investigation, Lot 1, 2 & 3 in DP212617 and Lot 8 in DP660564, 259-271 Pacific Highway, Lindfield, NSW' dated 20 February 2015, ref: 610.14433-R3.

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13 LIMITATIONS

This report is for the exclusive use of Ku-ring-gai Council. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR Consulting.

This report has been prepared based on the scope of services (see below). SLR Consulting cannot be held responsible to the Client and/or others for any matters outside the agreed scope of services. Other parties should not rely upon this report and should make their own enquiries and obtain independent advice in relation to such matters.

This report has been prepared by SLR Consulting with reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with the Client. Information reported herein is based on the interpretation of data collected (data, surveys, analyses, designs, plans and other information), which has been accepted in good faith as being accurate and valid.

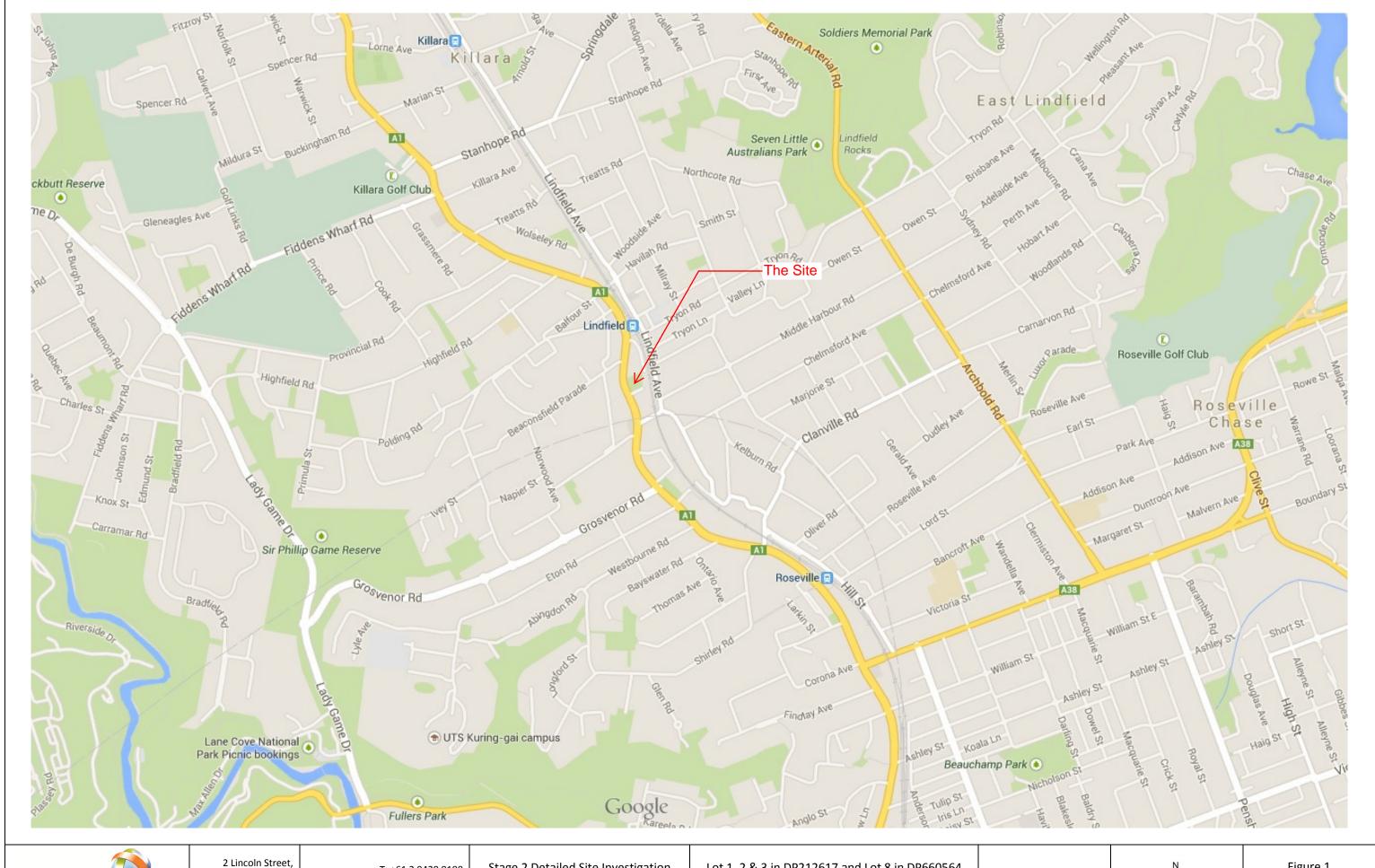
It should be noted that many investigations are based upon an assessment of potentially contaminating processes which may have occurred historically on the site. This assessment is based upon historical records associated with the site. Such records may be inaccurate, absent or contradictory. In addition documents may exist which are not readily available for public viewing.

Except where it has been stated in this report, SLR Consulting has not verified the accuracy or completeness of the data relied upon. Statements, opinions, facts, information, conclusions and/or recommendations made in this report ("conclusions") are based in whole or part on the data obtained, those conclusions are contingent upon the accuracy and completeness of the data. SLR Consulting cannot be held liable should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to SLR Consulting leading to incorrect conclusions.

Should the report be reviewed for any reason, the report must be reviewed in its entirety and in conjunction with the associated Scope of Services. It should be understood that where a report has been developed for a specific purpose, for example a due diligence report for a property vendor, it may not be suitable for other purposes such as satisfying the needs of a purchaser or assessing contamination risks for classifying the site. The report should not be applied for any purpose other than that originally specified at the time the report was issued.

Report logs, figures, laboratory data, drawings, etc. are generated for this report by SLR consultants (unless otherwise stated) based on their individual interpretation of the site conditions at the time the site visit was undertaken. Although SLR consultants undergo training to achieve a standard of field reporting, individual interpretation still varies slightly. Information should not under any circumstances be redrawn for inclusion in other documents or separated from this report in any way.

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16 December 2015

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Figure 1
Site Locality Plan



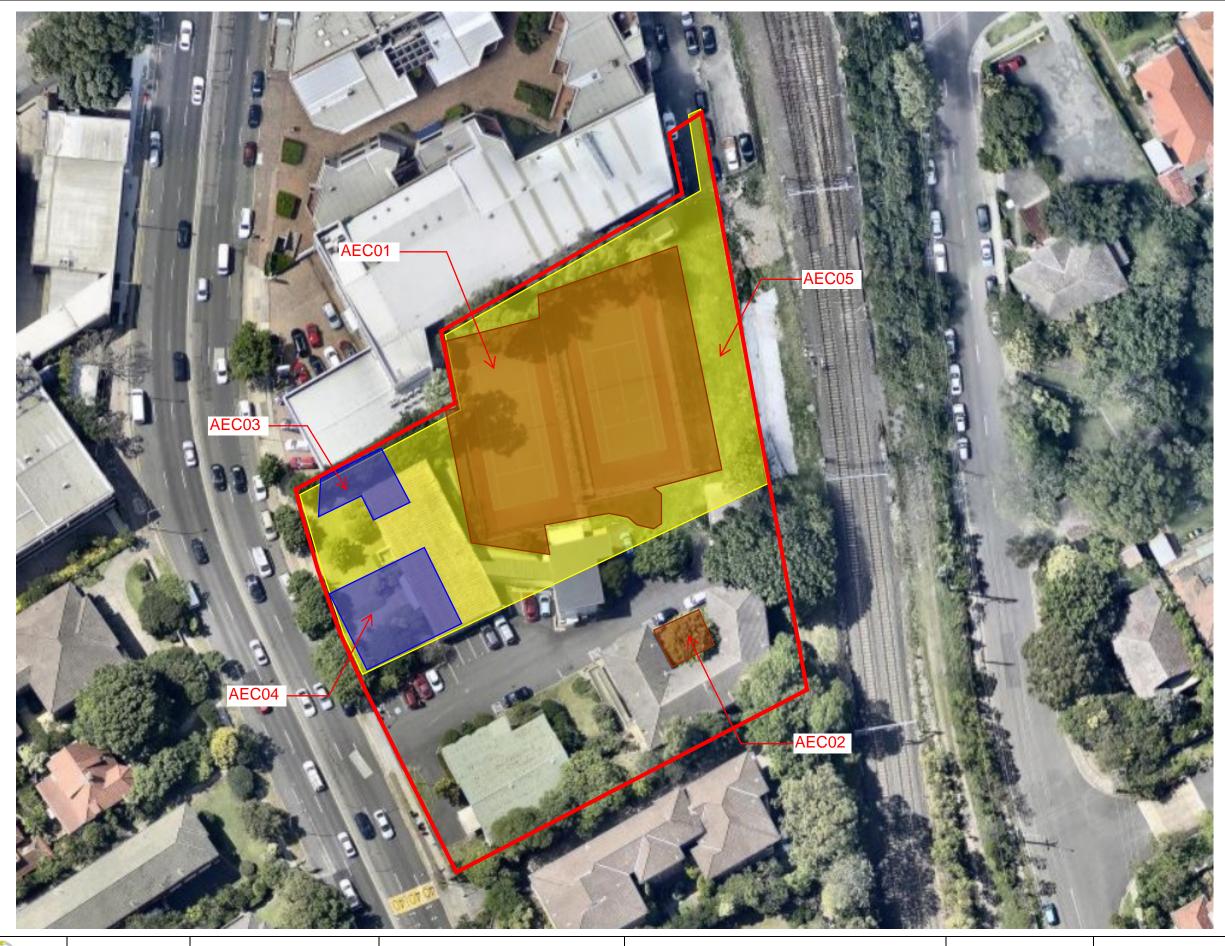


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Figure 2
Site Layout Plan





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Areas of Environmental Concern

Figure 3





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Figure 4
Sampling Point

Location Plan





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Figure 3
Exceedences of
Adopted Investigation
Levels

Tables

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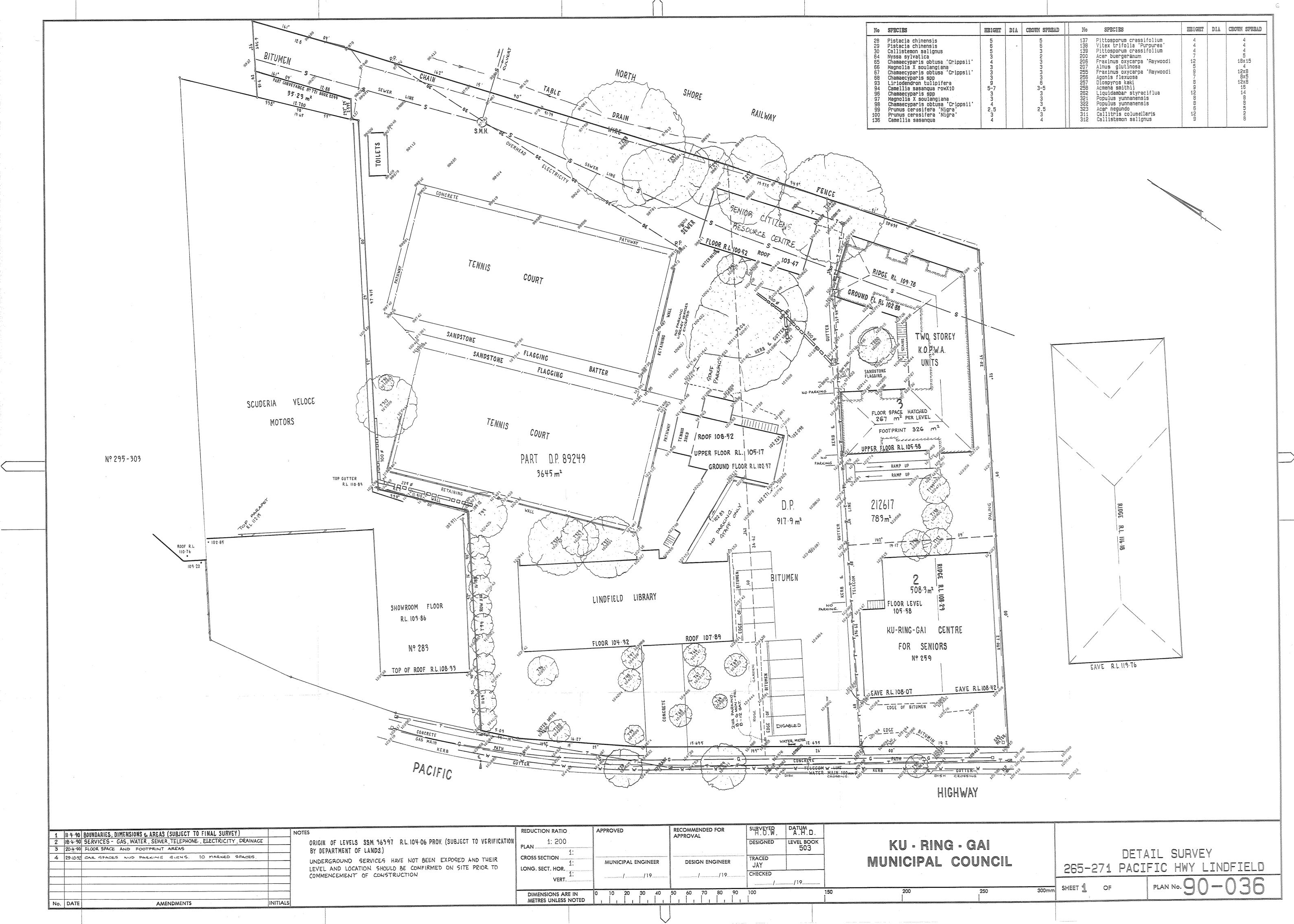
| | | | | | | | Sample Name Description Sample Date | SE 146852.001 TP 01/0.0-0.2 6-12-2015 | SE 146852.002 TP01/0.3-0.5 6-12-2015 | SE146852.003 TP02/0.0-0.2 6-12-2015 | SE146852.004 TP02/0.3-0.5 6-12-2015 | SE 146852.005 TP 03/0.0-0.2 6-12-2015 | SE 146852.006 TP03/0.3-0.5 6-12-2015 | SE146852.007 TP04/0.0-0.2 6-12-2015 | SE146852.008 TP04/0.3-0.5 6-12-2015 | SE 146852.009 TP 05/0.0-0.2 6-12-2015 | SE 146852.010 TP 05/0.4/0.6 6-12-2015 | SE146852.011 TP06/0.0-0.2 6-12-2015 | SE146852.012 TP06/0.5-0.7 6-12-2015 | SE 146852.013 TP 06/1.1-1.3 6-12-2015 | SE 146852.014 TP07/0.0-0.2 6-12-2015 |
|---|----------------|---|--|----------------------------------|---|-----------------------------|-------------------------------------|---|--|---|---|---|--|---|---|---|---|---|---|---|--|
| | | Direct Contact HIL - Commercial / | Vapour Intrusion HSL D Om to <1m | Vapour Intrusion HSL D 1m to <2m | Management Limits for TPH Fraction F1-F4 in | Asbestos HSL (presence / | Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Analyte Name | Units | Industrial D (mg/kg) | (mg/kg) | (mg/kg) | soil (mg/kg) | absence) | Reporting Limit | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result |
| VOC in Soil | | (mg/kg) | | | | | | | | | | | | | | | | | | | |
| Benzene Toluene | mg/kg | 100 14000 | 0.5 160 | 0.5 220 | | | 0.1 0.1 | N.A. | N.A. | <0.1 <0.1 | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. |
| Ethylbenzene | mg/kg mg/kg | 4500 | 55 | NL | | | 0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. |
| m/p-xylene | mg/kg | | | | | | 0.2 | N.A. | N.A. | <0.2 | N.A. | <0.2 | N.A. | N.A. | N.A. | <0.2 | N.A. | <0.2 | N.A. | N.A. | N.A. |
| o-xylene | mg/kg | | | | | | 0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. |
| Total Xylenes Total BTEX | mg/kg mg/kg | 12000 | 40 | 60 | | | 0.3 0.6 | N.A. | N.A. | <0.3 <0.6 | N.A. | <0.3 <0.6 | N.A. | N.A. | N.A. | <0.3 <0.6 | N.A. | <0.3 <0.6 | N.A. | N.A. | N.A. |
| Naphthalene | mg/kg | 1400 | 3 | NL | | | 0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. |
| | | | | | | | | | | | | | | | | | | | | | |
| TRH in Soil Benzene (F0) | mg/kg | 100 | 0.5 | 0.5 | | | 0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. |
| TRH C6-C10 | mg/kg | 4400 | 0.5 | 0.5 | 700 | | 25 | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. |
| TRH C6-C10 minus BTEX (F1) | mg/kg | | 45 | 70 | | | 25 | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. |
| TRH >C10-C16 (F2) | mg/kg | 3300 | 110 | 242 | 1000 | | 25 | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. | <25 | N.A. | <25 | N.A. | N.A. | N.A. |
| TRH >C10-C16 (F2) - Naphthalene TRH >C16-C34 (F3) | mg/kg mg/kg | 4500 | 110 | 240 | 2500 | | 25 90 | N.A. | N.A. | <25 <90 | N.A. | <25 <90 | N.A. | N.A. | N.A. | <25 <90 | N.A. | <25 <90 | N.A. | N.A. | N.A. N.A. |
| TRH >C34-C40 (F4) | mg/kg | 6300 | | | 10000 | | 120 | N.A. | N.A. | <120 | N.A. | <120 | N.A. | N.A. | N.A. | <120 | N.A. | <120 | N.A. | N.A. | N.A. |
| DAM in Call | | | | | | | | | | | | | | | | | | | | | |
| PAH in Soil Naphthalene | mg/kg | 1400 | | | | | 0.1 | <0.1 | N.A. | <0.1 | <0.1 | <0.1 | N.A. | N.A. | N.A. | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | N.A. |
| 2-methylnaphthalene | mg/kg | | | | | | 0.1 | <0.1 | N.A. | <0.1 | <0.1 | <0.1 | N.A. | N.A. | N.A. | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | N.A. |
| 1-methylnaphthalene | mg/kg | | | | | | 0.1 | <0.1 | N.A. | <0.1 | <0.1 | <0.1 | N.A. | N.A. | N.A. | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | N.A. |
| Acenaphthylene Acenaphthene | mg/kg mg/kg | | | | | | 0.1 0.1 | 0.3 <0.1 | N.A. | 0.1 <0.1 | <0.1 <0.1 | 0.2 <0.1 | N.A. | N.A. | N.A. N.A. | <0.1 <0.1 | <0.1 <0.1 | <0.1 | 0.2 <0.1 | <0.1 <0.1 | N.A. |
| Fluorene | mg/kg | | | | | | 0.1 | <0.1 | N.A. | <0.1 | <0.1 | <0.1 | N.A. | N.A. | N.A. | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | N.A. |
| Phenanthrene | mg/kg | | | | | | 0.1 | 0.6 | N.A. | 0.9 | <0.1 | 0.4 | N.A. | N.A. | N.A. | 0.1 | <0.1 | <0.1 | 0.4 | <0.1 | N.A. |
| Anthracene Fluoranthene | mg/kg mg/kg | | | | | | 0.1 0.1 | 0.2 2.5 | N.A. | 0.3 2.0 | <0.1 <0.1 | 0.1 1.6 | N.A. | N.A. N.A. | N.A. N.A. | <0.1 0.4 | <0.1 <0.1 | <0.1 0.1 | 1.9 | <0.1 <0.1 | N.A. |
| Pyrene | mg/kg | | | | | | 0.1 | 2.4 | N.A. | 1.4 | <0.1 | 1.4 | N.A. | N.A. | N.A. | 0.4 | <0.1 | 0.1 | 1.9 | <0.1 | N.A. |
| Benzo(a)anthracene | mg/kg | | | | | | 0.1 | 2,0 | N.A. | 0.8 | <0.1 | 1.1 | N.A. | N.A. | N.A. | 0.3 | <0.1 | 0.1 | 1.6 | <0.1 | N.A. |
| Chrysene | mg/kg | | | | | | 0.1 | 1.7 | N.A. | 0.6 | <0.1 | 0.9 | N.A. | N.A. | N.A. | 0.3 | <0.1 | 0.1 | 1.3 | <0.1 | N.A. |
| Benzo(b&j)fluoranthene Benzo(k)fluoranthene | mg/kg mg/kg | | | | | | 0.1 | 2.5 1.4 | N.A. | 0.7 | <0.1 <0.1 | 1.2 0.9 | N.A. | N.A. | N.A. | 0.3 | <0.1 <0.1 | 0.1 0.1 | 1.8 | <0.1 <0.1 | N.A. |
| Benzo(a)pyrene | mg/kg | | | | | | 0.1 | 2.8 | N.A. | 0.9 | <0.1 | 1.6 | N.A. | N.A. | N.A. | 0.4 | <0.1 | 0.1 | 2.3 | <0.1 | N.A. |
| Indeno(1,2,3-cd)pyrene | mg/kg | | | | | | 0.1 | 1.8 | N.A. | 0.6 | <0.1 | 1.1 | N.A. | N.A. | N.A. | 0.3 | <0.1 | 0.1 | 1.5 | <0.1 | N.A. |
| Dibenzo(a&h)anthracene Benzo(ghi)perylene | mg/kg mg/kg | | | | | | 0.1 | 0.1 1.3 | N.A. | <0.1 0.4 | <0.1 <0.1 | 0.1 0.8 | N.A. | N.A. | N.A. | <0.1 0.2 | <0.1 <0.1 | <0.1 | 0.2 1.1 | <0.1 <0.1 | N.A. |
| Carcinogenic PAHs, BaP TEQ <lor=0< th=""><td>TEQ (mg/kg)</td><td></td><td></td><td></td><td></td><td></td><td>0.2</td><td>3.8</td><td>N.A.</td><td>1.2</td><td><0.2</td><td>2.1</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>0.5</td><td><0.2</td><td><0.2</td><td>3.1</td><td><0.2</td><td>N.A.</td></lor=0<> | TEQ (mg/kg) | | | | | | 0.2 | 3.8 | N.A. | 1.2 | <0.2 | 2.1 | N.A. | N.A. | N.A. | 0.5 | <0.2 | <0.2 | 3.1 | <0.2 | N.A. |
| Carcinogenic PAHs, BaP TEQ <lor=lor< th=""><td>TEQ (mg/kg)</td><td>3</td><td></td><td></td><td></td><td></td><td>0.3</td><td>3.8</td><td>N.A.</td><td>1.3</td><td><0.3</td><td>2.1</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>0.6</td><td><0.3</td><td><0.3</td><td>3.1</td><td><0.3</td><td>N.A.</td></lor=lor<> | TEQ (mg/kg) | 3 | | | | | 0.3 | 3.8 | N.A. | 1.3 | <0.3 | 2.1 | N.A. | N.A. | N.A. | 0.6 | <0.3 | <0.3 | 3.1 | <0.3 | N.A. |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" th=""><td>TEQ (mg/kg)</td><td>200</td><td></td><td></td><td></td><td></td><td>0.2 0.8</td><td>3.8</td><td>N.A.</td><td>1.2</td><td><0.2 <0.8</td><td>2.1</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>0.5</td><td><0.2</td><td>0.2</td><td>3.1</td><td><0.2 <0.8</td><td>N.A.</td></lor=lor> | TEQ (mg/kg) | 200 | | | | | 0.2 0.8 | 3.8 | N.A. | 1.2 | <0.2 <0.8 | 2.1 | N.A. | N.A. | N.A. | 0.5 | <0.2 | 0.2 | 3.1 | <0.2 <0.8 | N.A. |
| Total PAH (18) | mg/kg | 300 | | | | | 0.6 | 19 | N.A. | 9.2 | 70.6 | 12 | N.A. | N.A. | N.A. | 2.8 | <0.8 | 0.9 | 15 | ~ 0.8 | N.A. |
| OCP in Soil | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene (HCB) | mg/kg | 10 | | | | | 0.1 0.1 | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 |
| Alpha BHC Lindane | mg/kg mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Heptachlor | mg/kg | 6 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Aldrin | mg/kg | - 6 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Dieldrin Beta BHC | mg/kg mg/kg | | | | | | 0.2 0.1 | <0.2 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 <0.1 |
| Delta BHC | mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Heptachlor epoxide | mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Alpha Endosulfan Beta Endosulfan | mg/kg mg/kg | 270 | | | | | 0.2 0.2 | <0.2 <0.2 | N.A. N.A. | N.A. N.A. | N.A. N.A. | N.A. | N.A. N.A. | <0.2 <0.2 | N.A. N.A. | N.A. | N.A. N.A. | N.A. | N.A. N.A. | N.A. | <0.2 <0.2 |
| Gamma Chlordane | mg/kg | 50 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Alpha Chiordane | mg/kg | 30 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| trans-N onachlor Dieldrin | mg/kg mg/kg | | | | | | 0.1 0.2 | <0.1 <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.2 |
| Endrin | mg/kg | 10 | | | | | 0.2 | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 |
| o,p'-DDT | mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| p,p'-DDT o,p'-DDE | mg/kg mg/kg | | | | | | 0.1 | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 |
| p,p'-DDE | mg/kg | 240 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| o,p'-DDD | mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| p,p'-DDD Endosulfan sulphate | mg/kg | | | | | | 0.1 0.1 | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 |
| Endosulfan sulphate Endrin Aldehyde | mg/kg mg/kg | | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Methoxychlor | mg/kg | 300 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| Endrin Ketone | mg/kg | | | | | | 0.1 0.1 | <0.1 <0.1 | N.A. | N.A. N.A. | N.A. | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 |
| Isodrin Mirex | mg/kg mg/kg | 10 | | | | | 0.1 | <0.1 | N.A. | N.A. | N.A. | N.A. N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 |
| | J .9 | | | | | | | | | | | | | | | | | | | | |
| Metals in Soil | | | | | | | | | | | | | | | | | | | | | |
| Arsenic, As Cadmium, Cd | mg/kg mg/kg | 100 20 | | | | | 3 0.3 | 15 0.8 | 10 <0.3 | 10 0.6 | N.A. N.A. | 0.4 | 6 <0.3 | 3 <0.3 | 5 <0.3 | 0.3 | 8 <0.3 | 45 0.8 | N.A. | 12 0.3 | 64 0.3 |
| Chromium, Cr | mg/kg | 100 | | | | | 0.3 | 16 | 13 | 17 | N.A. | 14 | 15 | 14 | 15 | 13 | 8.4 | 18 | N.A. | 23 | 18 |
| Copper, Cu | mg/kg | 6000 | | | | | 0.5 | 57 | 10 | 20 | N.A. | 29 | 9.5 | 15 | 7.5 | 32 | 8.6 | 41 | N.A. | 7.9 | 16 |
| Lead, Pb Nickel Ni | mg/kg | 300 | | | | | 1 0.5 | 400 7.3 | 21 0.7 | 140 4.3 | N.A. | 270 3.0 | 26 1.0 | 150 2.0 | 21 1.7 | 210 2.5 | 23 0.5 | 170 40 | N.A. | 31 2.3 | 79 4.4 |
| Nickel, Ni Zinc, Zn | mg/kg mg/kg | 400 7400 | | | | | 0.5 | 7.3 340 | 9.2 | 4.3 80 | N.A. N.A. | 110 | 1.0 | 2.U 31 | 31 | 61 | 21 | 800 | N.A. | 2.3 | 4.4 76 |
| Mercury | mg/kg | 40 | | | | | 0.01 | 0.27 | <0.01 | 0.06 | N.A. | 0.31 | <0.01 | 0.21 | <0.01 | 0.30 | <0.01 | 0.33 | N.A. | 0.01 | 0.03 |
| Ash ontes in Sail | | | | | | | | | | | | | | | | | | | | | |
| Asbestos in Soil Asbestos Detected | No unit | | | | | Detect | 0 | No | N.A. | No | N.A. | No | N.A. | No | N.A. | No | N.A. | No | N.A. | N.A. | No |
| | 1 | | | | | Dotost | - | | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | | |

| | | | | | | | SE146852.015 TP07/0.7-0.9 6-12-2015 | SE 146852.016 TP07/0.9-1.1 6-12-2015 | SE 146852.017 HA01/0.0-0.2 6-12-2015 | SE146852.018 HA01/0.3-0.5 6-12-2015 | SE146852.019 HA02/0.0-0.2 6-12-2015 | SE 146852.020 HA02/0.2-0.4 6-12-2015 | SE 146852.021 HA03/0.05-0.2 6-12-2015 | SE146852.022 HA03/0.4-0.6 6-12-2015 | SE146852.023 HA03/0.7-0.9 6-12-2015 | SE 146852.024 HA04/0.05-0.2 6-12-2015 | SE 146852.025 HA04/0.2-0.4 6-12-2015 | SE 146852.026 HA05/0.05-0.2 6-12-2015 | SE146852.027 HA05/0.2-0.4 6-12-2015 | SE 146852.028 HA06/0.0-0.2 6-12-2015 | SE 146852.029 HA06/0.5-0.7 6-12-2015 |
|--|----------------------------|---|------------------------|----------------------------------|-----------------------------------|-----------------------------|---|--|--|---|---|--|---|---|---|---|--|---|---|--|--|
| | | Direct Contact HIL - Commercial / | Vapour Intrusion HSL D | Vapour Intrusion HSL D | Management Limits for TPH | Asbestos HSL (presence / | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Analyte Name | Units | Industrial D | Om to <1m (mg/kg) | 1 m to <2 m (mg/kg) | Fraction F1-F4 in soil (mg/kg) | absence) | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result |
| VOC in Soil | | (mg/kg) | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/kg | 100 | 0.5 | 0.5 | | | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| Toluene Ethylbenzene | mg/kg mg/kg | 14000 4500 | 160 55 | 220 NL | | | <0.1 <0.1 | N.A. | <0.1 <0.1 | N.A. N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | <0.1 <0.1 |
| m/p-xylene | mg/kg | | | | | | <0.2 | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | <0.2 |
| o-xylene | mg/kg | | | | | | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| Total Xylenes Total BTEX | mg/kg mg/kg | 12000 | 40 | 60 | | | <0.3 <0.6 | N.A. | <0.3 <0.6 | N.A. N.A. | N.A. | N.A. | N.A. | <0.3 <0.6 | N.A. | N.A. | <0.3 <0.6 | N.A. | N.A. | N.A. | <0.3 |
| Naphthalene | mg/kg | 1400 | 3 | NL | | | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| · | | | | | | | | | | | | | | | | | | | | | |
| TRH in Soil | m a /lua | 400 | 0.5 | 0.5 | | | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. | N.A. | <0.1 | N A | N.A. | N.A. | <0.1 |
| Benzene (F0) TRH C6-C10 | mg/kg mg/kg | 100 4400 | 0.5 | 0.5 | 700 | | <25 | N.A. | <25 | N.A. | N.A. | N.A. | N.A. | <25 | N.A. | N.A. | <25 | N.A. | N.A. | N.A. | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | | 45 | 70 | 7.55 | | <25 | N.A. | <25 | N.A. | N.A. | N.A. | N.A. | <25 | N.A. | N.A. | <25 | N.A. | N.A. | N.A. | <25 |
| TRH >C10-C16 (F2) | mg/kg | 3300 | | | 1000 | | <25 | N.A. | <25 | N.A. | N.A. | N.A. | N.A. | <25 | N.A. | N.A. | <25 | N.A. | N.A. | N.A. | <25 |
| TRH >C10-C16 (F2) - Naphthalene TRH >C16-C34 (F3) | mg/kg mg/kg | 4500 | 110 | 240 | 2500 | | <25 <90 | N.A. | <25 <90 | N.A. N.A. | N.A. | N.A. | N.A. | <25 <90 | N.A. | N.A. | <25 <90 | N.A. | N.A. | N.A. | <25 98 |
| TRH >C34-C40 (F4) | mg/kg | 6300 | | | 10000 | | <120 | N.A. | <120 | N.A. | N.A. | N.A. | N.A. | <120 | N.A. | N.A. | <120 | N.A. | N.A. | N.A. | <120 |
| | | | | | | | | | | | | | | | | | | | | | |
| PAH in Soil Naphthalene | ma/ka | 1400 | | | | | <0.1 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| 2-methylnaphthalene | mg/kg mg/kg | 1400 | | | | | <0.1 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| 1-methylnaphthalene | mg/kg | | | | | | <0.1 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | <0.1 |
| Acenaphthylene Acenaphthene | mg/kg | | | | | | 0.2 <0.1 | <0.1 <0.1 | <0.1 <0.1 | N.A. N.A. | N.A. N.A. | <0.1 <0.1 | N.A. N.A. | <0.1 <0.1 | <0.1 <0.1 | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. N.A. | 0.3 <0.1 |
| Fluorene | mg/kg mg/kg | | | | | | <0.1 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | 0.1 |
| Phenanthrene | mg/kg | | | | | | 0.5 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | 0.1 | N.A. | N.A. | N.A. | 1.4 |
| Anthracene | mg/kg | | | | | | 0.2 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | 0.3 |
| Fluoranthene Pyrene | mg/kg mg/kg | | | | | | 2.1 1.9 | <0.1 <0.1 | 0.2 | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. | 0.2 | 0.3 | N.A. | 0.1 0.1 | N.A. | N.A. | N.A. | 3.1 2.8 |
| Benzo(a)anthracene | mg/kg | | | | | | 1.6 | <0.1 | 0.1 | N.A. | N.A. | <0.1 | N.A. | 0.2 | 0.2 | N.A. | <0.1 | N.A. | N.A. | N.A. | 2.0 |
| Chrysene | mg/kg | | | | | | 1.4 | <0.1 | 0.1 | N.A. | N.A. | <0.1 | N.A. | 0.2 | 0.2 | N.A. | 0.2 | N.A. | N.A. | N.A. | 1.5 |
| Benzo(b&j)fluoranthene | mg/kg | | | | | | 2.1 | <0.1 | 0.1 | N.A. | N.A. | <0.1 | N.A. | 0.2 | 0.2 | N.A. | 0.1 | N.A. | N.A. | N.A. | 1.6 |
| Benzo(k)fluoranthene Benzo(a)pyrene | mg/kg mg/kg | | | | | | 1.4 2.5 | <0.1 0.1 | 0.1 | N.A. | N.A. | <0.1 <0.1 | N.A. | 0.2 | 0.2 | N.A. | <0.1 0.1 | N.A. | N.A. | N.A. | 1.6 2.6 |
| Indeno(1,2,3-cd)pyrene | mg/kg | | | | | | 1.8 | <0.1 | 0.1 | N.A. | N.A. | <0.1 | N.A. | 0.2 | 0.2 | N.A. | <0.1 | N.A. | N.A. | N.A. | 1.7 |
| Dibenzo(a&h)anthracene | mg/kg | | | | | | 0.2 | <0.1 | <0.1 | N.A. | N.A. | <0.1 | N.A. | <0.1 | <0.1 | N.A. | <0.1 | N.A. | N.A. | N.A. | 0.2 |
| Benzo(ghi)perylene Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>mg/kg</td><td></td><td></td><td></td><td></td><td></td><td>1.3 3.5</td><td><0.1 <0.2</td><td>0.1</td><td>N.A. N.A.</td><td>N.A.</td><td><0.1</td><td>N.A.</td><td>0.1</td><td>0.2</td><td>N.A.</td><td><0.1 <0.2</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>1.2 3.5</td></lor=0<> | mg/kg | | | | | | 1.3 3.5 | <0.1 <0.2 | 0.1 | N.A. N.A. | N.A. | <0.1 | N.A. | 0.1 | 0.2 | N.A. | <0.1 <0.2 | N.A. | N.A. | N.A. | 1.2 3.5 |
| Carcinogenic PAHs, BaP TEQ <lor=0 <lor="LOR</td" bap="" carcinogenic="" pahs,="" teq=""><td>TEQ (mg/kg) TEQ (mg/kg)</td><td>3</td><td></td><td></td><td></td><td></td><td>3.5</td><td><0.2</td><td><0.2 <0.3</td><td>N.A.</td><td>N.A.</td><td><0.2 <0.3</td><td>N.A.</td><td>0.4</td><td>0.5</td><td>N.A.</td><td><0.3</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>3.5</td></lor=0> | TEQ (mg/kg) TEQ (mg/kg) | 3 | | | | | 3.5 | <0.2 | <0.2 <0.3 | N.A. | N.A. | <0.2 <0.3 | N.A. | 0.4 | 0.5 | N.A. | <0.3 | N.A. | N.A. | N.A. | 3.5 |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td></td><td></td><td></td><td></td><td></td><td>3.5</td><td>0.2</td><td>0.2</td><td>N.A.</td><td>N.A.</td><td><0.2</td><td>N.A.</td><td>0.3</td><td>0.5</td><td>N.A.</td><td><0.2</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>3.5</td></lor=lor> | TEQ (mg/kg) | | | | | | 3.5 | 0.2 | 0.2 | N.A. | N.A. | <0.2 | N.A. | 0.3 | 0.5 | N.A. | <0.2 | N.A. | N.A. | N.A. | 3.5 |
| Total PAH (18) | mg/kg | 300 | | | | | 17 | <0.8 | 1.0 | N.A. | N.A. | <0.8 | N.A. | 1.5 | 2.1 | N.A. | <0.8 | N.A. | N.A. | N.A. | 21 |
| OCP in Soil | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene (HCB) | mg/kg | 10 | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Alpha BHC | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Lindane Heptachlor | mg/kg | | | | | | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. |
| Aldrin | mg/kg mg/kg | - 6 | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Dieldrin | mg/kg | 6 | | | | | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. |
| Beta BHC | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Delta BHC Heptachlor epoxide | mg/kg mg/kg | | | | | | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. |
| Alpha Endosulfan | mg/kg | 270 | | | | | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. |
| Beta Endosulfan | mg/kg | 210 | | | | | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. |
| Gamma Chiordane Alpha Chiordane | mg/kg mg/kg | 50 | | | | | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. |
| trans-Nonachlor | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Dieldrin | mg/kg | | | | | | N.A. | N.A. | <0.2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 | N.A. |
| Endrin o,p'-DDT | mg/kg mg/kg | 10 | | | | | N.A. N.A. | N.A. | <0.2 <0.1 | N.A. N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.2 <0.1 | N.A. |
| p,p'-DDT | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| o,p'-DDE | mg/kg | 240 | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| p,p'-DDE o,p'-DDD | mg/kg | | | | | | N.A. | N.A. | <0.1 <0.1 | N.A. N.A. | N.A. N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. |
| p,p'-DDD | mg/kg mg/kg | | | | | | N.A. N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. N.A. | N.A. N.A. | N.A. | N.A. N.A. | N.A. | N.A. | <0.1 | N.A. |
| Endosulfan sulphate | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Endrin Aldehyde | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Methoxychlor Endrin Ketone | mg/kg mg/kg | 300 | | | | | N.A. N.A. | N.A. | <0.1 <0.1 | N.A. N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 <0.1 | N.A. |
| Isodrin | mg/kg | | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Mirex | mg/kg | 10 | | | | | N.A. | N.A. | <0.1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | <0.1 | N.A. |
| Metals in Soil | | | | | | | | | | | | | | | | | | | | | |
| Arsenic, As | mg/kg | 100 | | | | | 8 | 10 | 5 | 6 | 9 | 13 | 15 | 8 | 11 | 3 | 4 | 4 | 6 | 6 | 9 |
| Cadmium, Cd | mg/kg | 20 | | | | | 0.7 | <0.3 | 0.4 | <0.3 | 0.5 | <0.3 | 0.4 | 0.6 | 0.7 | <0.3 | <0.3 | 0.4 | <0.3 | 0.5 | 1.0 |
| Chromium, Cr | mg/kg | 100 | | | | | 21 | 19 | 13 | 11 | 17 | 19 | 22 | 18 | 20 | 17 | 17 | 14 | 14 | 16 | 18 |
| Copper, Cu Lead, Pb | mg/kg mg/kg | 6000 300 | | | | | 45 340 | 7.4 41 | 40 58 | 12 24 | 12 87 | 5.9 24 | 38 58 | 29 89 | 48 170 | 58 26 | 34 77 | 85 16 | 10 15 | 77 | 47 210 |
| Nickel, Ni | mg/kg | 400 | | | | | 5.6 | 2.0 | 5.9 | 4.9 | 4.1 | 1.3 | 13 | 11 | 9.3 | 38 | 18 | 49 | 4.0 | 40 | 9.8 |
| Zinc, Zn | mg/kg | 7400 | | | | | 230 | 26 | 79 | 32 | 89 | 14 | 41 | 120 | 190 | 46 | 56 | 88 | 9.4 | 160 | 220 |
| Mercury | mg/kg | 40 | | | | | 0.15 | 0.02 | 0.09 | 0.02 | 0.07 | <0.01 | 0.08 | 0.07 | 0.07 | 0.12 | 0.11 | 0.02 | <0.01 | 0.04 | 0.10 |
| Asbestos in Soil | | | | | | | | | | | | | | | | | | | | | |
| Asbestos Detected | No unit | | | | | Detect | N.A. | N.A. | N.A. | No | No | N.A. | No | N.A. | N.A. | No | N.A. | N.A. | No | No | N.A. |
| | | | | | | | | | • | • | | • | * | • | * | * | * | * | * | * | |

| | | | | | | | SE146852.030 |
|--|----------------------|-------------------------|---------------------------|---------------------------|------------------------------|--------------|-------------------|
| | | | | | | | HA06/0.9-1.1 |
| | | | | | | | 6-12-2015 Soil |
| | | Direct Contact | | | | | 3011 |
| | | HIL- | Vapour Intrusion HSL D | Vapour Intrusion HSL D | Management Limits for TPH | Asbestos HSL | |
| | | Commercial / | 0m to <1m | 1m to <2m | Fraction F1-F4 in | (presence / | |
| Analyte Name | Units | industrial D (mg/kg) | (mg/kg) | (mg/kg) | soil (mg/kg) | absence) | Result |
| VOC in Soil | | | | | | | |
| Benzene | mg/kg | 100 | 0.5 | 0.5 | | | N.A. |
| Toluene Ethylbenzene | mg/kg mg/kg | 14000 4500 | 160 55 | 220 NL | | | N.A. N.A. |
| m/p-xylene | mg/kg | 4300 | 33 | NE | | | N.A. |
| o-xylene | mg/kg | | | | | | N.A. |
| Total Xylenes | mg/kg | 12000 | 40 | 60 | | | N.A. |
| Total BTEX Naphthalene | mg/kg | 4.400 | | NII. | | | N.A. N.A. |
| Napninalene | mg/kg | 1400 | 3 | NL | | | N.A. |
| TRH in Soil | | | | | | | |
| Benzene (F0) | mg/kg | 100 | 0.5 | 0.5 | | | N.A. |
| TRH C6-C10 | mg/kg | 4400 | | | 700 | | N.A. |
| TRH C6-C10 minus BTEX (F1) TRH >C10-C16 (F2) | mg/kg | 2200 | 45 | 70 | 1000 | | N.A. N.A. |
| TRH >C10-C16 (F2) TRH >C10-C16 (F2) - Naphthalene | mg/kg mg/kg | 3300 | 110 | 240 | 1000 | | N.A. |
| TRH >C10-C16 (F2) - Naphthalene TRH >C16-C34 (F3) | mg/kg | 4500 | 110 | 240 | 2500 | | N.A. |
| TRH >C34-C40 (F4) | mg/kg | 6300 | | | 10000 | | N.A. |
| | | | | | | | |
| PAH in Soil | | | | | | | : |
| Naphthalene 2-methylnaphthalene | mg/kg | 1400 | | | | | <0.1 <0.1 |
| 2-methylnaphthalene 1-methylnaphthalene | mg/kg mg/kg | | | | | | <0.1 <0.1 |
| Acenaphthylene | mg/kg | | | | | | <0.1 |
| Acenaphthene | mg/kg | | | | | | <0.1 |
| Fluorene | mg/kg | | | | | | <0.1 |
| Phenanthrene | mg/kg | | | | | | 0.6 |
| Anthracene Fluoranthene | mg/kg mg/kg | | | | | | 0.1 1.5 |
| Pyrene | mg/kg | | | | | | 1.3 |
| Benzo(a)anthracene | mg/kg | | | | | | 0.9 |
| Chrysene | mg/kg | | | | | | 0.8 |
| Benzo(b&j)fluoranthene | mg/kg | | | | | | 0.9 |
| Benzo(k)fluoranthene | mg/kg | | | | | | 0.7 |
| Benzo(a)pyrene Indeno(1,2,3-cd)pyrene | mg/kg mg/kg | | | | | | 1.3 0.8 |
| Dibenzo(a&h)anthracene | mg/kg | | | | | | 0.1 |
| Benzo(ghi)perylene | mg/kg | | | | | | 0.6 |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ (mg/kg)</td><td></td><td></td><td></td><td></td><td></td><td>1.8</td></lor=0<> | TEQ (mg/kg) | | | | | | 1.8 |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>3</td><td></td><td></td><td></td><td></td><td>1.8</td></lor=lor<> | TEQ (mg/kg) | 3 | | | | | 1.8 |
| Carcinogenic PAHs, BaP TEQ <lor=lor (18)<="" 2="" pah="" td="" total=""><td>TEQ (mg/kg) mg/kg</td><td>300</td><td></td><td></td><td></td><td></td><td>1.8 9.7</td></lor=lor> | TEQ (mg/kg) mg/kg | 300 | | | | | 1.8 9.7 |
| Total All (10) | IIIg/Kg | 300 | | | | | 5.7 |
| OCP in Soil | | | | | | | |
| Hexachlorobenzene (HCB) | mg/kg | 10 | | | | | N.A. |
| Alpha BHC | mg/kg | | | | | | N.A. |
| Lindane Heptachlor | mg/kg | | | | | | N.A. N.A. |
| Aldrin | mg/kg mg/kg | ь | | | | | N.A. |
| Dieldrin | mg/kg | 6 | | | | | N.A. |
| Beta BHC | mg/kg | | | | | | N.A. |
| Delta BHC | mg/kg | | | | | | N.A. |
| Heptachlor epoxide | mg/kg | | | | | | N.A. |
| Alpha Endosulfan Beta Endosulfan | mg/kg mg/kg | 270 | | | | | N.A. N.A. |
| Gamma Chlordane | mg/kg | | | | | | N.A. |
| Alpha Chlordane | mg/kg | 50 | | | | | N.A. |
| trans-N onachior | mg/kg | | | | | | N.A. |
| Dieldrin | mg/kg | | | | | | N.A. |
| Endrin o,p'-DDT | mg/kg mg/kg | 10 | | | | | N.A. N.A. |
| 0,p -DDT p,p'-DDT | mg/kg mg/kg | | | | | | N.A. |
| o,p'-DDE | mg/kg | | | | | | N.A. |
| p,p'-DDE | mg/kg | 240 | | | | | N.A. |
| o,p'-DDD | mg/kg | | | | | | N.A. |
| p,p'-DDD | mg/kg | | | | | | N.A. |
| Endosulfan sulphate Endrin Aldehyde | mg/kg mg/kg | | | | | | N.A. N.A. |
| Methoxychlor | mg/kg mg/kg | 300 | | | | | N.A. N.A. |
| Endrin Ketone | mg/kg | | | | | | N.A. |
| Isodrin | mg/kg | | | | | | N.A. |
| Mirex | mg/kg | 10 | | | | | N.A. |
| Metale in Sail | | | | | | | |
| Metals in Soil Arsenic, As | mg/kg | 100 | | | | | N.A. |
| Cadmium, Cd | mg/kg | 20 | | | | | N.A. |
| Chromium, Cr | mg/kg | 100 | | | | | N.A. |
| Copper, Cu | mg/kg | 6000 | | | | | N.A. |
| Lead, Pb | mg/kg | 300 | | | | | N.A. |
| Nickel, Ni | mg/kg | 400 | | | | | N.A. N.A. |
| Zinc, Zn Mercury | mg/kg mg/kg | 7400 40 | | | | | N.A. N.A. |
| ··· | g/ng | 40 | | | | | 19.01 |
| Asbestos in Soil | | | | | | | |
| Asbestos Detected | No unit | | | | | Detect | N.A. |

| | | Sample Name | SE146852.005 | SE146852.032 | | S15-De08707 | | SE146852.014 | SE146852.031 | | S15-De08707 | |
|--|-------------|-----------------|--------------|--------------|---------|-------------|---------|--------------|--------------|---------|-------------|--------------|
| | | Description | TP03/0.0-0.2 | DUP02 | | DUP02A | | TP07/0.0-0.2 | DUP01 | | DUP01A | |
| | | Sample Date | 6-12-2015 | 6-12-2015 | RPD (%) | 6-12-2015 | RPD (%) | 6-12-2015 | 6-12-2015 | RPD (%) | 6-12-2015 | RPD (%) |
| | | Matrix | Soil | Soil | | Soil | | Soil | Soil | | Soil | |
| Analyte Name | Units | Reporting Limit | Result | Result | | | | Result | Result | | | |
| PAH in Soil | | | | | | | | | | | | |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | #VALUE! | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | ı |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | #VALUE! | - | #VALUE! | N.A. | N.A. | - | N.A. | i |
| 1-methylnaphthalene | mg/kg | 0.1 | < 0.1 | <0.1 | #VALUE! | - | #VALUE! | N.A. | N.A. | - | N.A. | i |
| Acenaphthylene | mg/kg | 0.1 | 0.2 | 0.1 | 67 | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | - |
| Acenaphthene | mg/kg | 0.1 | < 0.1 | <0.1 | #VALUE! | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | - |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | #VALUE! | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | - |
| Phenanthrene | mg/kg | 0.1 | 0.4 | 0.3 | 29 | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | - |
| Anthracene | mg/kg | 0.1 | 0.1 | <0.1 | #VALUE! | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | - |
| Fluoranthene | mg/kg | 0.1 | 1.6 | 1.4 | 13 | 1.7 | 6 | N.A. | N.A. | - | N.A. | - |
| Pyrene | mg/kg | 0.1 | 1.4 | 1.3 | 7 | 1.8 | 25 | N.A. | N.A. | - | N.A. | - |
| Benzo(a)anthracene | mg/kg | 0.1 | 1.1 | 1.0 | 10 | 1.1 | 0 | N.A. | N.A. | - | N.A. | - |
| Chrysene | mg/kg | 0.1 | 0.9 | 0.9 | 0 | 1.3 | 36 | N.A. | N.A. | - | N.A. | - |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | 1.2 | 1.2 | 0 | 1.6 | 29 | N.A. | N.A. | - | N.A. | - |
| Benzo(k)fluoranthene | mg/kg | 0.1 | 0.9 | 0.8 | 12 | 1.3 | 36 | N.A. | N.A. | = | N.A. | |
| Benzo(a)pyrene | mg/kg | 0.1 | 1.6 | 1.4 | 13 | 1.7 | 6 | N.A. | N.A. | = | N.A. | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 1.1 | 1.1 | 0 | 0.9 | 20 | N.A. | N.A. | = | N.A. | |
| Dibenzo(a&h)anthracene | mg/kg | 0.1 | 0.1 | 0.1 | 0 | <0.5 | #VALUE! | N.A. | N.A. | - | N.A. | ī |
| Benzo(ghi)perylene | mg/kg | 0.1 | 0.8 | 0.8 | 0 | 1.2 | 40 | N.A. | N.A. | - | N.A. | ī |
| Carcinogenic PAHs, BaP TEQ <lor=0< td=""><td>TEQ</td><td>0.2</td><td>2.1</td><td>2.0</td><td>5</td><td>2.2</td><td>5</td><td>N.A.</td><td>N.A.</td><td>-</td><td>N.A.</td><td>-</td></lor=0<> | TEQ | 0.2 | 2.1 | 2.0 | 5 | 2.2 | 5 | N.A. | N.A. | - | N.A. | - |
| Carcinogenic PAHs, BaP TEQ <lor=lor< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>2.1</td><td>2.0</td><td>5</td><td>2.5</td><td>17</td><td>N.A.</td><td>N.A.</td><td>-</td><td>N.A.</td><td>ī</td></lor=lor<> | TEQ (mg/kg) | 0.3 | 2.1 | 2.0 | 5 | 2.5 | 17 | N.A. | N.A. | - | N.A. | ī |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>2.1</td><td>2.0</td><td>5</td><td>2.7</td><td>25</td><td>N.A.</td><td>N.A.</td><td>-</td><td>N.A.</td><td>-</td></lor=lor> | TEQ (mg/kg) | 0.2 | 2.1 | 2.0 | 5 | 2.7 | 25 | N.A. | N.A. | - | N.A. | - |
| Total PAH (18) | mg/kg | 0.8 | 12 | 10 | 18 | 13 | 8 | N.A. | N.A. | - | N.A. | - |
| Metals in Soil | | | | | | | | | | | | |
| Arsenic, As | mg/kg | 3 | 4 | N.A. | - | N.A. | - | 64 | 63 | 2 | 93 | 37 |
| Cadmium, Cd | mg/kg | 0.3 | 0.4 | N.A. | - | N.A. | - | 0.3 | 0.4 | 29 | <0.4 | #VALUE! |
| Chromium, Cr | mg/kg | 0.3 | 14 | N.A. | - | N.A. | - | 18 | 19 | 5 | 16 | 12 |
| Copper, Cu | mg/kg | 0.5 | 29 | N.A. | = | N.A. | - | 16 | 32 | 67 | 63 | 119 |
| Lead, Pb | mg/kg | 1 | 270 | N.A. | = | N.A. | - | 79 | 73 | 8 | 46 | 53 |
| Nickel, Ni | mg/kg | 0.5 | 3.0 | N.A. | | N.A. | - | 4.4 | 8.3 | 61 | 5.0 | 13 |
| Zinc, Zn | mg/kg | 0.5 | 110 | N.A. | - | N.A. | - | 76 | 100 | 27 | 77 | 1 |
| Mercury | mg/kg | 0.01 | 0.31 | N.A. | = | N.A. | - | 0.03 | 0.06 | 67 | <0.05 | #VALUE! |

Appendix A
Report Number 610.14433-R4
Page 1 of 1 **DETAIL SURVEY**



Appendix B
Report Number 610.14433-R4
Page 1 of 1

TEST PIT AND BOREHOLE LOGS

2 Lincoln Street
Lane Cove NSW
Telephone: 9428

TEST PIT NUMBER TP01

PAGE 1 OF 1

EQUIPMENT Yanmar 3.5T TEST PIT LOCATION _____

TEST PIT SIZE 300mm LOGGED BY CAC CHECKED BY CM

| INIGIIION | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | Samples Tests Remarks | Additional Observations |
|-----------|-------|-----------|--------------|-------------|--------------------------|---|-----------------------------|-------------------------|
| Š | | | _ | | | TOPSOIL: silty SAND, fine to medium grained, brown, trace organics, dry, loose becoming dense with depth. | PID = 4.6ppm | No odour or staining. |
| | | | _ | | CL | CLAY: medium plasticity, orange/brown, moist, friable. | PID = 1.9ppm | No odour or staining. |
| | | | 0.5 | | | Borehole TP01 terminated at 0.6m | | |
| | | | _ | | | | | |
| | | | 1. <u>0</u> | | | | | |
| | | | _ | | | | | |
| | | | _ | | | | | |

SLR Consulting Australia Pty Ltd 2 Lineals Street TEST PIT NUMBER TP02

PAGE 1 OF 1

2 Lincoln Street
Lane Cove NSW
Telephone: 9428 8100
Fax: 9427 8200

BOREHOLE / TEST PIT 610.14433.00300.GPJ GINT STD AUSTRALIA.GDT 9-12-15

Fax: 9427 8200

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield

 PROJECT NUMBER
 610.14433.00300
 PROJECT LOCATION
 259-271 Pacific Highway, Lindfield

EXCAVATION CONTRACTOR Ken Coles SLOPE --- BEARING --- EQUIPMENT Yanmar 3.5T TEST PIT LOCATION ____

| | | | ZE 3 | | | LOGGED | BY CAC | | HECKED BY CM |
|---------|-------|-----------|-------------|-------------|--------------------------|---|--------|-----------------------------|-------------------------|
| NC | TES | | <u> </u> | | | | ı | 1 | |
| Melliod | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | | Samples Tests Remarks | Additional Observations |
| EX | | | _ | | | TOPSOIL: silty SAND, brown/grey, find to medium grained, loose, trace ash/slag. | dry, | PID = 0.0ppm | No odour or staining. |
| | | | 0. <u>5</u> | | CL | CLAY: medium plasticity, red/brown, stiff, moist. | | PID = 1.3ppm | No odour or staining. |
| | | | 1. <u>0</u> | | | Borehole TP02 terminated at 0.7m | | | |
| | | | 1.5 | | | | | | |

TEST PIT NUMBER TP03

PAGE 1 OF 1

Lane Cove NSW
Telephone: 9428 8100
Fax: 9427 8200

BOREHOLE / TEST PIT 610.14433.00300.GPJ GINT STD AUSTRALIA.GDT 9-12-15

Fax: 9427 8200

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield

 PROJECT NUMBER
 610.14433.00300
 PROJECT LOCATION
 259-271 Pacific Highway, Lindfield

 DATE STARTED
 6-12-15
 COMPLETED
 6-12-15
 R.L. SURFACE
 DATUM

 EXCAVATION CONTRACTOR
 Ken Coles
 SLOPE
 -- BEARING
 --

 EQUIPMENT
 Yanmar 3.5T

 TEST PIT LOCATION

| | | | | nmar 3 00mm | | LOGGED BY CAC | | CHECKED BY CM |
|--------|-------|-----------|-----------------------|----------------|--------------------------|---|-----------------------------|---------------------------------------|
| | TES | | | | | | | |
| Method | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | Samples Tests Remarks | Additional Observations |
| EX | | | _ | | | TOPSOIL: silty SAND, fine to medium grained, brown, dry, loose, trace ironstone gravel at 0.1m. | PID = 2.1ppm | No odour or staining. DUP02 + DUP02A. |
| | | | 0 <u>.5</u> | | CL | CLAY: brown, medium plasticity, dry, stiff. | PID = 2.1ppm | No odour or staining. |
| | | | - 1 <u>.0</u> - | | | Borehole TP03 terminated at 0.8m | | |
| | | | 1.5 | | | | | |

SLR Consulting Australia Pty Ltd
2 Lincoln Street
Lane Cove NSW

BOREHOLE / TEST PIT 610.14433.00300.GPJ GINT STD AUSTRALIA.GDT 9-12-15

TEST PIT NUMBER TP04 PAGE 1 OF 1

| | LI | | | | e: 942 7 8200 | 8 8100 | | | |
|--------|-------|------|--------------|------------------------------------|--------------------------|---|-----------------------------|-----------------------------|-------------------------|
| CLI | ENT | . Ku | | | ozoo ouncil | | PROJECT NAME DSI, | 259-271 Pacific | Highway, Lindfield |
| | | | | | | 33.00300 | | | Highway, Lindfield |
| DA. | TE S | TART | ΓED | 6-12- | 15 | COMPLETED 6-12-15 | R.L. SURFACE | | DATUM |
| | | | | | | Ken Coles | | | |
| | | | | | | - Non-Colos | | | |
| | | | | | | | | | |
| | | | <u> </u> | OUIIIII | 1 | | LOGGED BY _CAC | | CHECKED BY CIVI |
| NO | TES | | | | | | | | |
| Method | Water | RL | Depth (m) | Graphic Log | Classification Symbol | Material Descri | ption | Samples Tests Remarks | Additional Observations |
| X | > | (m) | (111) | 7 <u>1 1^N . 7</u> | | TOPSOIL: silty SAND, fine to medium grained | brown dry dense trace | | No odour or staining. |
| E) | | | | 1/ 1/1/ | | organics. | , brown, dry, derise, trace | 11 | 140 ododi oi stairiing. |
| | | | _ | 11/2 11/2 12/3/1/2 11/2 12/2 | | | | PID = 3.3ppm | 1 |
| | | | _ | | | | | | |
| | | | | V1/2 V | | | | | |
| | | | _ | | CL | CLAY: medium plasticity, moist, stiff to very sti | ff. | | No odour or staining. |
| | | | | | | | | | |
| | | | _ | | | | | PID = 1.2ppm | 1 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | 0.5 | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | _ | | | Becoming friable and dry. | | | |
| | | | | | | , | | | |
| | | | | | | | | | |
| | | | | ///// | | Borehole TP04 terminated at 0.7m | | - | |
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| | | | 4.0 | | | | | | |
| | | | 1.0 | | | | | | |
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SLR Consulting Australia Pty Ltd
2 Lincoln Street
Lane Cove NSW
Telephone: 9428 8100
Fax: 9427 8200

BOREHOLE / TEST PIT 610.14433.00300.GPJ GINT STD AUSTRALIA.GDT 9-12-15

TEST PIT NUMBER TP05

PAGE 1 OF 1

| 1 dx. 0+21 0200 | | |
|--|-------------------------------|--------------------------|
| CLIENT Ku-ring-gai Council | PROJECT NAME DSI, 259-271 Pag | cific Highway, Lindfield |
| PROJECT NUMBER 610.14433.00300 | PROJECT LOCATION 259-271 Page | ific Highway, Lindfield |
| DATE STARTED 6-12-15 COMPLETED 6-12-15 | R.L. SURFACE | DATUM |
| EXCAVATION CONTRACTOR Ken Coles | SLOPE | BEARING |
| EQUIPMENT Yanmar 3.5T | TEST PIT LOCATION | |
| TEST PIT SIZE 300mm | LOGGED BY CAC | CHECKED BY CM |
| NOTES | | |

| | SI F TES | | <u> </u> | 00mm | 1 | LOGGED BY CAC | | HECKED BY CM |
|--------|-------------|-----------|------------------|-------------|--------------------------|--|-----------------------------|-------------------------|
| Method | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | Samples Tests Remarks | Additional Observations |
| EX | | (**) | _ | | | TOPSOIL: silty SAND, fine to medium grained, brown, trace shale gravel, some organics. | PID = 4.3ppm | No odour or staining. |
| | | | - 0 <u>.5</u> | | CL | CLAY: medium plasticity, brown, very stiff, trace organics with some red mottles. | PID = 1.2ppm | No odour or staining |
| | | | _ | | | | PID — 1.2ppiii | |
| | | | | | | Borehole TP05 terminated at 0.8m | | |
| | | | 1 <u>.0</u> | | | | | |
| | | | _ _ _ | | | | | |
| | | | | | | | | |
| | | | 2.0 | | | | | |

2 Lincoln Street
Lane Cove NSW
Telephone: 9428 8100

TEST PIT NUMBER TP06

PAGE 1 OF 1

Fax: 9427 8200

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield

PROJECT NUMBER 610.14433.00300 PROJECT LOCATION 259-271 Pacific Highway, Lindfield

 DATE STARTED
 6-12-15
 COMPLETED
 6-12-15
 R.L. SURFACE
 DATUM

 EXCAVATION CONTRACTOR
 Ken Coles
 SLOPE
 -- BEARING
 --

| Water | מום | RL | Depth (m) | Graphic Log | Classification Symbol | Material Description | Samples Tests Remarks | Additional Observations |
|-------|-----|-----|--------------|-------------|--------------------------|--|-----------------------------|-------------------------|
| | > (| (m) | (m) | | 8 | FILL: Clayey SAND, fine to medium grained, brown, trace sandstone gravels, moist, dense. | PID = 6.3ppm | No odour or staining. |
| | | | 0 <u>.5</u> | | | FILL: CLAY, medium plasticity, brown, trace <u>ash</u> , moist, firm to stiff. | PID = 2.4ppm | No odour or staining. |
| | | | 1.55 | | CL | CLAY: brown, medium plasticity, moist, stiff. | PID = 0.0ppm | No odour or staining. |
| | | | | | | Borehole TP06 terminated at 1.8m | _ | |

TEST PIT NUMBER TP07

PAGE 1 OF 1

SLR 2 Lincoln Street Lane Cove NSV Telephone: 942

CLIENT Ku-ring-gai Council

Lane Cove NSW Telephone: 9428 8100 Fax: 9427 8200

PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield

PROJECT NUMBER 610.14433.00300 PROJECT LOCATION 259-271 Pacific Highway, Lindfield

 DATE STARTED
 6-12-15
 COMPLETED
 6-12-15
 R.L. SURFACE
 DATUM

EXCAVATION CONTRACTOR Ken Coles SLOPE --- BEARING --EQUIPMENT Yanmar 3.5T TEST PIT LOCATION _

TEST PIT SIZE 300mm LOGGED BY CAC CHECKED BY CM

| | | | | | e O | | | 0 | |
|--------|-------|-----------|------------------|-------------|--------------------------|---|---|-----------------------------|--|
| Method | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | | Samples Tests Remarks | Additional Observations |
| EX | | () | - | | | FILL: CLAY, medium plasticity, brown with some red mottles. | | PID = 1.6ppm | No odour or staining. Trace glass 0.2m, DUP01 + DUP01A |
| | | | - 0 <u>.5</u> | | | | | | |
| | | | _ | | | With trace <u>ash</u> . | I | PID = 3.6ppm | |
| | | | 1 <u>.0</u> | | CL | CLAY: medium plasticity, brown, moist, firm to stiff. | | PID = 0.7ppm | No odour or staining. |
| | | | _ | | | Borehole TP07 terminated at 1.4m | | | |
| | | | 1 <u>.5</u> | | | | | | |
| | | | _ | | | | | | |

2 Lincoln Street
Lane Cove NSW

BOREHOLE NUMBER HA01

PAGE 1 OF 1

 DATE STARTED
 6-12-15
 COMPLETED
 6-12-15
 R.L. SURFACE
 DATUM

 DRILLING CONTRACTOR
 SLR Consulting Australia Pty Ltd
 SLOPE
 90°
 BEARING
 --

 EQUIPMENT
 Hand Auger (Stainless Steel)
 HOLE LOCATION

 HOLE SIZE
 82mm (150mm core)
 LOGGED BY CAC
 CHECKED BY CM

| | | | 82mi | n (150 | Omm c | core) LOGGED BY _CAC | C | HECKED BY CM |
|--------|-------|-----------|--------------|-------------|--------------------------|--|-----------------------------|-------------------------|
| NO | TES | | | | | | ı | ı |
| Method | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | Samples Tests Remarks | Additional Observations |
| Ϋ́ | | | | | | FILL: silty SAND, fine to medium grained, brown, dry, loose, trace slag. | | No odour or staining. |
| - | | | _ | | | | PID = 2.4ppm | |
| | | | | XX | | FILL O III CAND C III III II III II II II II II II II I | | |
| | | | 0.5 | | | FILL: Gravelly SAND, fine to medium grained, brown/yellow, dense, trace metal, trace concrete. | PID = 3.1ppm | No odour or staining. |
| | | | | ~ ~ ~ ~ | | Borehole HA01 terminated at 0.5m | | Auger refusal. |
| | | | _ | | | | | |
| | | | 1.0 | | | | | |
| | | | 1.0_ | | | | | |
| | | | | | | | | |
| | | | _ | | | | | |
| | | | _ | | | | | |
| | | | 1 <u>.5</u> | | | | | |
| | | | _ | | | | | |
| | | | 2.0 | | | | | |

PAGE 1 OF 1

SLR Consulting Australia Pty Ltd 2 Lincoln Street Lane Cove NSW Telephone: 9428 8100

BOREHOLE / TEST PIT 610.14433.00300 BORE LOGS.GPJ GINT STD AUSTRALIA.GDT 9-12-15

Fax: 9427 8200

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield PROJECT NUMBER 610.14433.00300 PROJECT LOCATION _259-271 Pacific Highway, Lindfield **DATE STARTED** 6-12-15 **COMPLETED** 6-12-15 R.L. SURFACE _____ DATUM DRILLING CONTRACTOR SLR Consulting Australia Pty Ltd SLOPE 90° BEARING ---EQUIPMENT Hand Auger (Stainless Steel) HOLE LOCATION CHECKED BY CM HOLE SIZE 82mm (150mm core) LOGGED BY CAC **NOTES** Classification Symbol Graphic Log Samples Material Description Additional Observations Tests Remarks Depth (m) RI ₹ TOPSOIL: Silty SAND, brown, trace organics, dry, loose. No odour or staining. 1/ 1/ 11/2 PID = 1.3ppm1/ 1/ CLAY: medium plasticity, brown, dry, very stiff. No odour or staining. PID = 1.6ppm Borehole HA02 terminated at 0.7m Target depth. 1.0 1.5

PAGE 1 OF 1

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2 Lincoln Street
Lane Cove NSW
Telephone: 9428 8100

Telephone: 9428 8100 Fax: 9427 8200

BOREHOLE / TEST PIT 610.14433.00300 BORE LOGS.GPJ GINT STD AUSTRALIA.GDT 9-12-15

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield
PROJECT NUMBER 610.14433.00300 PROJECT LOCATION 259-271 Pacific Highway, Lindfield

DATE STARTED 6-12-15 COMPLETED 6-12-15 R.L. SURFACE DATUM

DRILLING CONTRACTOR SLR Consulting Australia Pty Ltd SLOPE 90° BEARING --FOUIPMENT Hand Auger (Stainless Steel) HOLE LOCATION

| | II De | AC-1- | 11 | | | | OLE LOCATION | | EARING |
|-------|-------|-----------|-----------------------|-------------|--------------------------|--|--------------|-----------------------------|-------------------------|
| | | | | | | ainless Steel) H ore) L | | | |
| NOT | | | oziili | 11 (13) | лин С | uie) L | COGED BY CAC | | ILORED DI CIVI |
| 7 | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Description | | Samples Tests Remarks | Additional Observations |
| | | (111) | (111) | J | 0 0, | ASPHALT | | | |
| HA DT | | | _ | | | FILL: Gravelly CLAY, medium plasticity, brown/orang | 1 | PID = 3.1ppm | No odour or staining. |
| | | | 0.5 | | | | | PID = 4.2ppm | No odour or staining. |
| | | | _ | | SC | Silty CLAY medium plasticity, brown, moist, soft to fi | | PID = 2.3ppm | No odour or staining, |
| | | | 1.0 | | | Borehole HA03 terminated at 1.1m | | | |
| | | | _ _ 1 <u>.5</u> | | | | | | |
| | | | | | | | | | |

PAGE 1 OF 1

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2 Lincoln Street
Lane Cove NSW
Telephone: 9428 8100
Fax: 9427 8200

| CLIENT Ku-ring-gai Council | PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield | | | | | | |
|--|--|---------------------------|--|--|--|--|--|
| PROJECT NUMBER _610.14433.00300 | PROJECT LOCATION 259-271 Pa | acific Highway, Lindfield | | | | | |
| DATE STARTED 6-12-15 COMPLETED 6-12-15 | R.L. SURFACE | DATUM | | | | | |
| DRILLING CONTRACTOR SLR Consulting Australia Pty Ltd | SLOPE _90° | BEARING | | | | | |
| EQUIPMENT Hand Auger (Stainless Steel) | HOLE LOCATION | | | | | | |
| HOLE SIZE 82mm (150mm core) | LOGGED BY CAC | CHECKED BY CM | | | | | |
| NOTES | | | | | | | |
| | | | | | | | |

| EQ | UIPI | MENT | Ha | nd Au | ger (S | tainless Steel) | HOLE LOCATION | | |
|--------|-------|-----------|--------------|-------------|--------------------------|---|---------------|-----------------------------|-------------------------|
| | | | 82m | m (15 | 0mm c | core) | LOGGED BY CAC | C | HECKED BY CM |
| NO | TES | | | | | | | | |
| Method | Water | RL (m) | Depth (m) | Graphic Log | Classification Symbol | Material Descriptio | n | Samples Tests Remarks | Additional Observations |
| DT | | | | | | ASPHALT | | | |
| НА | | | _ | | | FILL: Clayey SAND, fine to medium grained, grey | | PID = 1.2ppm | No odour or staining. |
| | | | _ | | | FILL: Gravelly CLAY, grey and orange, moist, stif | f. | PID = 2.4ppm | No odour or staining. |
| | | | 0 <u>.5</u> | | | Borehole HA04 terminated at 0.6m | | | Hand auger refusal. |
| | | | _ | | | | | | |
| | | | 1 <u>.0</u> | | | | | | |
| | | | _ | | | | | | |
| | | | 1. <u>5</u> | | | | | | |
| | | | 2.0 | | | | | | |

PAGE 1 OF 1

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Fax: 9427 8200

BOREHOLE / TEST PIT 610.14433.00300 BORE LOGS.GPJ GINT STD AUSTRALIA.GDT 9-12-15

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield PROJECT NUMBER 610.14433.00300 PROJECT LOCATION _259-271 Pacific Highway, Lindfield **DATE STARTED** 6-12-15 **COMPLETED** 6-12-15 R.L. SURFACE **DATUM** DRILLING CONTRACTOR SLR Consulting Australia Pty Ltd SLOPE 90° BEARING _---**EQUIPMENT** Hand Auger (Stainless Steel) HOLE LOCATION HOLE SIZE 82mm (150mm core) LOGGED BY CAC CHECKED BY CM **NOTES** Classification Symbol Graphic Log Samples Material Description Additional Observations Tests Remarks Depth (m) RI DT FILL: Clayey SAND, fine to medium grained, grey/yellow, trace igneous No odour or staining. ¥ PID = 4.3 ppm CLAY: medium plasticity, red with grey mottles, moist, stiff. No odour or staining. PID = 1.2ppm Borehole HA05 terminated at 0.6m 1.0 1.5

PAGE 1 OF 1

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BOREHOLE / TEST PIT 610.14433.00300 BORE LOGS.GPJ GINT STD AUSTRALIA.GDT 9-12-15

Telephone: 9428 8100 Fax: 9427 8200

CLIENT Ku-ring-gai Council PROJECT NAME DSI, 259-271 Pacific Highway, Lindfield PROJECT NUMBER 610.14433.00300 PROJECT LOCATION _259-271 Pacific Highway, Lindfield **DATE STARTED** 6-12-15 **COMPLETED** 6-12-15 R.L. SURFACE _____ DATUM DRILLING CONTRACTOR SLR Consulting Australia Pty Ltd SLOPE 90° BEARING _---EQUIPMENT Hand Auger (Stainless Steel) HOLE LOCATION CHECKED BY CM HOLE SIZE 82mm (150mm core) LOGGED BY CAC **NOTES** Classification Symbol Graphic Log Samples Material Description Additional Observations Tests Remarks Depth (m) RI FILL: silty GRAVEL, grey, angular, dry, trace organics, trace glass. No odour or staining. Rail ballast? ₹ PID = 0.0ppmFILL: Sandy CLAY, medium plasticity, brown, moist, stiff. With trace ash. No odour or staining. PID = 3.1ppm Becoming soft, with trace sandstone gravels, trace ironstone gravel. No odour or staining. PID = 3.0ppmBorehole HA06 terminated at 1.1m Hand Auger refusal on unknown obstruction. 1.5

Appendix C Report Number 610.14433-R4 Page 1 of 1

LABORATORY DOCUMENTATION



ANALYTICAL REPORT





CLIENT DETAILS -

Client

LABORATORY DETAILS

Laboratory

Date Reported

Craig Cowper Contact

SLR CONSULTING AUSTRALIA PTY LTD

Lego Building, 2 Lincoln Street Address

(PO Box 176 NSW LANECOVE 1595)

LANECOVE NSW 2066

Huong Crawford Manager

SGS Alexandria Environmental

Unit 16, 33 Maddox St Address

Alexandria NSW 2015

02 9427 8100 Telephone Facsimile 02 9427 8200

Email ccowper@slrconsulting.com

610.14433.00300 Linfield Project SGS PO 20112 Order Number

35 Samples

+61 2 8594 0400 Telephone Facsimile +61 2 8594 0499

Email au.environmental.sydney@sgs.com

SGS Reference SE146852 R0 Date Received 7/12/2015 14/12/2015

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Andy Sutton

Senior Organic Chemist

kmln

Dong Liang

Metals/Inorganics Team Leader

S. Ravenoln.

Kamrul Ahsan

Senior Chemist

Ly Kim Ha

Organic Section Head

Ravee Sivasubramaniam

Asbestos Analyst/Hygiene Team Leader

SGS Australia Pty Ltd ABN 44 000 964 278

Environmental Services

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC Alexandria NSW 2015 Alexandria NSW 2015

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SGS

ANALYTICAL RESULTS

VOC's in Soil [AN433/AN434] Tested: 8/12/2015

| | | | TP02/0.0-0.2 | TP03/0.0-0.2 | TP05/0.0-0.2 | TP06/0.0-0.2 | TP07/0.7-0.9 |
|----------------|-------|-----|----------------|----------------|----------------|----------------|----------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.003 | SE146852.005 | SE146852.009 | SE146852.011 | SE146852.015 |
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| | | | HA01/0.0-0.2 | HA03/0.4-0.6 | HA04/0.2-0.4 | HA06/0.5-0.7 |
|----------------|-------|-----|----------------|----------------|----------------|----------------|
| | | | SOIL | SOIL | SOIL | SOIL |
| | | | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.017 | SE146852.022 | SE146852.025 | SE146852.029 |
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

14/12/2015 Page 2 of 18



Volatile Petroleum Hydrocarbons in Soil [AN433/AN434/AN410] Tested: 8/12/2015

| | | | TP02/0.0-0.2 | TP03/0.0-0.2 | TP05/0.0-0.2 | TP06/0.0-0.2 | TP07/0.7-0.9 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - | - | - | - | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.003 | SE146852.005 | SE146852.009 | SE146852.011 | SE146852.015 |
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| | | | HA01/0.0-0.2 | HA03/0.4-0.6 | HA04/0.2-0.4 | HA06/0.5-0.7 |
|----------------------------|-------|-----|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL |
| | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.017 | SE146852.022 | SE146852.025 | SE146852.029 |
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 |

14/12/2015 Page 3 of 18



TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 8/12/2015

| | | | _ | | | | |
|---------------------------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | TP02/0.0-0.2 | TP03/0.0-0.2 | TP05/0.0-0.2 | TP06/0.0-0.2 | TP07/0.7-0.9 |
| | | | | | | | |
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - | - | - | - | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.003 | SE146852.005 | SE146852.009 | SE146852.011 | SE146852.015 |
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | <45 | 53 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 (F2) - Naphthalene | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH C10-C40 Total | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| | | | HA01/0.0-0.2 | HA03/0.4-0.6 | HA04/0.2-0.4 | HA06/0.5-0.7 |
|---------------------------------|-------|-----|----------------|----------------|----------------|----------------|
| | | | SOIL | SOIL | SOIL | SOIL |
| | | | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.017 | SE146852.022 | SE146852.025 | SE146852.029 |
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | 70 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 (F2) - Naphthalene | mg/kg | 25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | 98 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 |
| TRH C10-C40 Total | mg/kg | 210 | <210 | <210 | <210 | <210 |

14/12/2015 Page 4 of 18



PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 8/12/2015

| | | | TP01/0.0-0.2 | TP02/0.0-0.2 | TP02/0.3-0.5 | TP03/0.0-0.2 | TP05/0.0-0.2 |
|---|-------------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | | | | | |
| | | | SOIL - | SOIL - | SOIL - | SOIL | SOIL |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.001 | SE146852.003 | SE146852.004 | SE146852.005 | SE146852.009 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | 0.3 | 0.1 | <0.1 | 0.2 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | 0.6 | 0.9 | <0.1 | 0.4 | 0.1 |
| Anthracene | mg/kg | 0.1 | 0.2 | 0.3 | <0.1 | 0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | 2.5 | 2.0 | <0.1 | 1.6 | 0.4 |
| Pyrene | mg/kg | 0.1 | 2.4 | 1.4 | <0.1 | 1.4 | 0.4 |
| Benzo(a)anthracene | mg/kg | 0.1 | 2.0 | 0.8 | <0.1 | 1.1 | 0.3 |
| Chrysene | mg/kg | 0.1 | 1.7 | 0.6 | <0.1 | 0.9 | 0.3 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | 2.5 | 0.7 | <0.1 | 1.2 | 0.3 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | 1.4 | 0.5 | <0.1 | 0.9 | 0.3 |
| Benzo(a)pyrene | mg/kg | 0.1 | 2.8 | 0.9 | <0.1 | 1.6 | 0.4 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 1.8 | 0.6 | <0.1 | 1.1 | 0.3 |
| Dibenzo(a&h)anthracene | mg/kg | 0.1 | 0.1 | <0.1 | <0.1 | 0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | 1.3 | 0.4 | <0.1 | 0.8 | 0.2 |
| Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td>3.8</td><td>1.2</td><td><0.2</td><td>2.1</td><td>0.5</td></lor=0*<> | TEQ | 0.2 | 3.8 | 1.2 | <0.2 | 2.1 | 0.5 |
| Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>3.8</td><td>1.3</td><td><0.3</td><td>2.1</td><td>0.6</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | 3.8 | 1.3 | <0.3 | 2.1 | 0.6 |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>3.8</td><td>1.2</td><td><0.2</td><td>2.1</td><td>0.5</td></lor=lor> | TEQ (mg/kg) | 0.2 | 3.8 | 1.2 | <0.2 | 2.1 | 0.5 |
| Total PAH (18) | mg/kg | 0.8 | 19 | 9.2 | <0.8 | 12 | 2.8 |

| | | | TP05/0.4/0.6 | TP06/0.0-0.2 | TP06/0.5-0.7 | TP06/1.1-1.3 | TP07/0.7-0.9 |
|--|-------------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.010 | SE146852.011 | SE146852.012 | SE146852.013 | SE146852.015 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 0.2 | <0.1 | 0.2 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 0.4 | <0.1 | 0.5 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0.2 | <0.1 | 0.2 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | 0.1 | 1.9 | <0.1 | 2.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | 0.1 | 1.9 | <0.1 | 1.9 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0.1 | 1.6 | <0.1 | 1.6 |
| Chrysene | mg/kg | 0.1 | <0.1 | 0.1 | 1.3 | <0.1 | 1.4 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0.1 | 1.8 | <0.1 | 2.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0.1 | 1.2 | <0.1 | 1.4 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | 0.1 | 2.3 | <0.1 | 2.5 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0.1 | 1.5 | <0.1 | 1.8 |
| Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 0.2 | <0.1 | 0.2 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 1.1 | <0.1 | 1.3 |
| Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td><0.2</td><td><0.2</td><td>3.1</td><td><0.2</td><td>3.5</td></lor=0*<> | TEQ | 0.2 | <0.2 | <0.2 | 3.1 | <0.2 | 3.5 |
| Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td><0.3</td><td><0.3</td><td>3.1</td><td><0.3</td><td>3.5</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | 3.1 | <0.3 | 3.5 |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td><0.2</td><td>0.2</td><td>3.1</td><td><0.2</td><td>3.5</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2 | 0.2 | 3.1 | <0.2 | 3.5 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | 0.9 | 15 | <0.8 | 17 |

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PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 8/12/2015 (continued)

| | | | TP07/0.9-1.1 | HA01/0.0-0.2 | HA02/0.2-0.4 | HA03/0.4-0.6 | HA03/0.7-0.9 | |
|--|-------------|-----|--------------|--------------|--------------|--------------|--------------|--|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | | | - | - | - | - | - | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | |
| PARAMETER | UOM | LOR | SE146852.016 | SE146852.017 | SE146852.020 | SE146852.022 | SE146852.023 | |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Fluoranthene | mg/kg | 0.1 | <0.1 | 0.2 | <0.1 | 0.2 | 0.3 | |
| Pyrene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Chrysene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Benzo(a)pyrene | mg/kg | 0.1 | 0.1 | 0.1 | <0.1 | 0.2 | 0.3 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.2 | 0.2 | |
| Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | 0.1 | 0.2 | |
| Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td><0.2</td><td><0.2</td><td><0.2</td><td>0.3</td><td>0.4</td></lor=0*<> | TEQ | 0.2 | <0.2 | <0.2 | <0.2 | 0.3 | 0.4 | |
| Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td><0.3</td><td><0.3</td><td><0.3</td><td>0.4</td><td>0.5</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | 0.4 | 0.5 | |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.2</td><td>0.2</td><td><0.2</td><td>0.3</td><td>0.5</td></lor=lor> | TEQ (mg/kg) | 0.2 | 0.2 | 0.2 | <0.2 | 0.3 | 0.5 | |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | 1.0 | <0.8 | 1.5 | 2.1 | |
| | | | | 1 | | 1 | | |

| | | | HA04/0.2-0.4 | HA06/0.5-0.7 | HA06/0.9-1.1 | DUP02 |
|---|-------------|-----|----------------------------------|---------------------------|---------------------------|---------------------------|
| | | | SOIL | SOIL | SOIL | SOIL |
| | | | | | | |
| PARAMETER | UOM | LOR | 6/12/2015 SE146852.025 | 6/12/2015 SE146852.029 | 6/12/2015 SE146852.030 | 6/12/2015 SE146852.032 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | 0.3 | <0.1 | 0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | 0.1 | 1.4 | 0.6 | 0.3 |
| Anthracene | mg/kg | 0.1 | <0.1 | 0.3 | 0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | 0.1 | 3.1 | 1.5 | 1.4 |
| Pyrene | mg/kg | 0.1 | | | | |
| Benzo(a)anthracene | | 0.1 | 0.1 <0.1 | 2.8 | 1.3 | 1.3 |
| * | mg/kg | | - | 2.0 | 0.9 | 1.0 |
| Chrysene | mg/kg | 0.1 | 0.2 | 1.5 | 0.8 | 0.9 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.1 | 1.6 | 0.9 | 1.2 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 1.6 | 0.7 | 0.8 |
| Benzo(a)pyrene | mg/kg | 0.1 | 0.1 | 2.6 | 1.3 | 1.4 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 1.7 | 0.8 | 1.1 |
| Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | 0.2 | 0.1 | 0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 1.2 | 0.6 | 0.8 |
| Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td><0.2</td><td>3.5</td><td>1.8</td><td>2.0</td></lor=0*<> | TEQ | 0.2 | <0.2 | 3.5 | 1.8 | 2.0 |
| Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td><0.3</td><td>3.5</td><td>1.8</td><td>2.0</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | <0.3 | 3.5 | 1.8 | 2.0 |
| Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td><0.2</td><td>3.5</td><td>1.8</td><td>2.0</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2 | 3.5 | 1.8 | 2.0 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | 21 | 9.7 | 10 |

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OC Pesticides in Soil [AN400/AN420] Tested: 8/12/2015

| | | | TP01/0.0-0.2 | TP04/0.0-0.2 | TP07/0.0-0.2 | HA01/0.0-0.2 | HA06/0.0-0.2 |
|-------------------------|-------|-----|----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | | 1701/0.0-0.2 | 1704/0.0-0.2 | 1707/0.0-0.2 | 11A01/0.0-0.2 | 11A00/0.0-0.2 |
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| PARAMETER | UOM | LOR | 6/12/2015 SE146852.001 | 6/12/2015 SE146852.007 | 6/12/2015 SE146852.014 | 6/12/2015 SE146852.017 | 6/12/2015 SE146852.028 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Endrin | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

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Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 10/12/2015

| | | | TP01/0.0-0.2 | TP01/0.3-0.5 | TP02/0.0-0.2 | TP03/0.0-0.2 | TP03/0.3-0.5 |
|--------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.001 | SE146852.002 | SE146852.003 | SE146852.005 | SE146852.006 |
| Arsenic, As | mg/kg | 3 | 15 | 10 | 10 | 4 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | 0.8 | <0.3 | 0.6 | 0.4 | <0.3 |
| Chromium, Cr | mg/kg | 0.3 | 16 | 13 | 17 | 14 | 15 |
| Copper, Cu | mg/kg | 0.5 | 57 | 10 | 20 | 29 | 9.5 |
| Lead, Pb | mg/kg | 1 | 400 | 21 | 140 | 270 | 26 |
| Nickel, Ni | mg/kg | 0.5 | 7.3 | 0.7 | 4.3 | 3.0 | 1.0 |
| Zinc, Zn | mg/kg | 0.5 | 340 | 9.2 | 80 | 110 | 12 |

| | | | TP04/0.0-0.2 | TP04/0.3-0.5 | TP05/0.0-0.2 | TP05/0.4/0.6 | TP06/0.0-0.2 |
|--------------|-------|-----|----------------|----------------|----------------|----------------|----------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.007 | SE146852.008 | SE146852.009 | SE146852.010 | SE146852.011 |
| Arsenic, As | mg/kg | 3 | 3 | 5 | 3 | 8 | 45 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 0.3 | <0.3 | 0.8 |
| Chromium, Cr | mg/kg | 0.3 | 14 | 15 | 13 | 8.4 | 18 |
| Copper, Cu | mg/kg | 0.5 | 15 | 7.5 | 32 | 8.6 | 41 |
| Lead, Pb | mg/kg | 1 | 150 | 21 | 210 | 23 | 170 |
| Nickel, Ni | mg/kg | 0.5 | 2.0 | 1.7 | 2.5 | 0.5 | 40 |
| Zinc, Zn | mg/kg | 0.5 | 31 | 31 | 61 | 21 | 800 |

| | | | TP06/1.1-1.3 | TP07/0.0-0.2 | TP07/0.7-0.9 | TP07/0.9-1.1 | HA01/0.0-0.2 |
|--------------|-------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | | | | | |
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.013 | SE146852.014 | SE146852.015 | SE146852.016 | SE146852.017 |
| Arsenic, As | mg/kg | 3 | 12 | 64 | 8 | 10 | 5 |
| Cadmium, Cd | mg/kg | 0.3 | 0.3 | 0.3 | 0.7 | <0.3 | 0.4 |
| Chromium, Cr | mg/kg | 0.3 | 23 | 18 | 21 | 19 | 13 |
| Copper, Cu | mg/kg | 0.5 | 7.9 | 16 | 45 | 7.4 | 40 |
| Lead, Pb | mg/kg | 1 | 31 | 79 | 340 | 41 | 58 |
| Nickel, Ni | mg/kg | 0.5 | 2.3 | 4.4 | 5.6 | 2.0 | 5.9 |
| Zinc, Zn | mg/kg | 0.5 | 22 | 76 | 230 | 26 | 79 |

| | | | 11404/000 | 11400/0.0.0 | 11400/000 | 11400/0.05.0.0 | 11400/0400 |
|--------------|-------|-----|--------------|--------------|--------------|----------------|--------------|
| | | | HA01/0.3-0.5 | HA02/0.0-0.2 | HA02/0.2-0.4 | HA03/0.05-0.2 | HA03/0.4-0.6 |
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - | - | - | - | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.018 | SE146852.019 | SE146852.020 | SE146852.021 | SE146852.022 |
| Arsenic, As | mg/kg | 3 | 6 | 9 | 13 | 15 | 8 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | 0.5 | <0.3 | 0.4 | 0.6 |
| Chromium, Cr | mg/kg | 0.3 | 11 | 17 | 19 | 22 | 18 |
| Copper, Cu | mg/kg | 0.5 | 12 | 12 | 5.9 | 38 | 29 |
| Lead, Pb | mg/kg | 1 | 24 | 87 | 24 | 58 | 89 |
| Nickel, Ni | mg/kg | 0.5 | 4.9 | 4.1 | 1.3 | 13 | 11 |
| Zinc, Zn | mg/kg | 0.5 | 32 | 89 | 14 | 41 | 120 |

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Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 10/12/2015 (continued)

| | | | HA03/0.7-0.9 | HA04/0.05-0.2 | HA04/0.2-0.4 | HA05/0.05-0.2 | HA05/0.2-0.4 |
|--------------|-------|-----|----------------------------------|---------------------------|---------------------------|---------------------------|----------------------------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - | - | - | - | - |
| PARAMETER | UOM | LOR | 6/12/2015 SE146852.023 | 6/12/2015 SE146852.024 | 6/12/2015 SE146852.025 | 6/12/2015 SE146852.026 | 6/12/2015 SE146852.027 |
| Arsenic, As | mg/kg | 3 | 11 | 3 | 4 | 4 | 6 |
| Cadmium, Cd | mg/kg | 0.3 | 0.7 | <0.3 | <0.3 | 0.4 | <0.3 |
| Chromium, Cr | mg/kg | 0.3 | 20 | 17 | 17 | 14 | 14 |
| Copper, Cu | mg/kg | 0.5 | 48 | 58 | 34 | 85 | 10 |
| Lead, Pb | mg/kg | 1 | 170 | 26 | 77 | 16 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 9.3 | 38 | 18 | 49 | 4.0 |
| Zinc, Zn | mg/kg | 0.5 | 190 | 46 | 56 | 88 | 9.4 |

| | | | HA06/0.0-0.2 | HA06/0.5-0.7 | DUP01 |
|--------------|-------|-----|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL |
| | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.028 | SE146852.029 | SE146852.031 |
| Arsenic, As | mg/kg | 3 | 6 | 9 | 63 |
| Cadmium, Cd | mg/kg | 0.3 | 0.5 | 1.0 | 0.4 |
| Chromium, Cr | mg/kg | 0.3 | 16 | 18 | 19 |
| Copper, Cu | mg/kg | 0.5 | 77 | 47 | 32 |
| Lead, Pb | mg/kg | 1 | 77 | 210 | 73 |
| Nickel, Ni | mg/kg | 0.5 | 40 | 9.8 | 8.3 |
| Zinc, Zn | mg/kg | 0.5 | 160 | 220 | 100 |

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Mercury in Soil [AN312] Tested: 11/12/2015

| | | | TP01/0.0-0.2 | TP01/0.3-0.5 | TP02/0.0-0.2 | TP03/0.0-0.2 | TP03/0.3-0.5 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.001 | SE146852.002 | SE146852.003 | SE146852.005 | SE146852.006 |
| Mercury | mg/kg | 0.01 | 0.27 | <0.01 | 0.06 | 0.31 | <0.01 |

| | | | TP04/0.0-0.2 | TP04/0.3-0.5 | TP05/0.0-0.2 | TP05/0.4/0.6 | TP06/0.0-0.2 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.007 | SE146852.008 | SE146852.009 | SE146852.010 | SE146852.011 |
| Mercury | mg/kg | 0.01 | 0.21 | <0.01 | 0.30 | <0.01 | 0.33 |

| | | | TP06/1.1-1.3 | TP07/0.0-0.2 | TP07/0.7-0.9 | TP07/0.9-1.1 | HA01/0.0-0.2 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.013 | SE146852.014 | SE146852.015 | SE146852.016 | SE146852.017 |
| Mercury | mg/kg | 0.01 | 0.01 | 0.03 | 0.15 | 0.02 | 0.09 |

| | | | HA01/0.3-0.5 | HA02/0.0-0.2 | HA02/0.2-0.4 | HA03/0.05-0.2 | HA03/0.4-0.6 |
|-----------|-------|------|--------------|--------------|--------------|---------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.018 | SE146852.019 | SE146852.020 | SE146852.021 | SE146852.022 |
| Mercury | mg/kg | 0.01 | 0.02 | 0.07 | <0.01 | 0.08 | 0.07 |

| | | | HA03/0.7-0.9 | HA04/0.05-0.2 | HA04/0.2-0.4 | HA05/0.05-0.2 | HA05/0.2-0.4 |
|-----------|-------|------|--------------|---------------|--------------|---------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.023 | SE146852.024 | SE146852.025 | SE146852.026 | SE146852.027 |
| Mercury | mg/kg | 0.01 | 0.07 | 0.12 | 0.11 | 0.02 | <0.01 |

| | | | HA06/0.0-0.2 | HA06/0.5-0.7 | DUP01 |
|-----------|-------|------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL |
| | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.028 | SE146852.029 | SE146852.031 |
| Mercury | mg/kg | 0.01 | 0.04 | 0.10 | 0.06 |

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Moisture Content [AN002] Tested: 8/12/2015

| | | TP01/0.0-0.2 | TP01/0.3-0.5 | TP02/0.0-0.2 | TP02/0.3-0.5 | TP03/0.0-0.2 |
|------------|----------|--------------|--------------|--------------|--------------|--------------|
| | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | - |
| | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM LOR | SE146852.001 | SE146852.002 | SE146852.003 | SE146852.004 | SE146852.005 |
| % Moisture | %w/w 0.5 | 16 | 16 | 16 | 20 | 15 |

| | | | TP03/0.3-0.5 | TP04/0.0-0.2 | TP04/0.3-0.5 | TP05/0.0-0.2 | TP05/0.4/0.6 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.006 | SE146852.007 | SE146852.008 | SE146852.009 | SE146852.010 |
| % Moisture | %w/w | 0.5 | 23 | 12 | 21 | 12 | 20 |

| | | | TP06/0.0-0.2 | TP06/0.5-0.7 | TP06/1.1-1.3 | TP07/0.0-0.2 | TP07/0.7-0.9 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.011 | SE146852.012 | SE146852.013 | SE146852.014 | SE146852.015 |
| % Moisture | %w/w | 0.5 | 14 | 16 | 24 | 20 | 20 |

| | | | TP07/0.9-1.1 | HA01/0.0-0.2 | HA01/0.3-0.5 | HA02/0.0-0.2 | HA02/0.2-0.4 |
|------------|------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.016 | SE146852.017 | SE146852.018 | SE146852.019 | SE146852.020 |
| % Moisture | %w/w | 0.5 | 23 | 14 | 16 | 12 | 20 |

| | | | HA03/0.05-0.2 | HA03/0.4-0.6 | HA03/0.7-0.9 | HA04/0.05-0.2 | HA04/0.2-0.4 |
|------------|------|-----|---------------|--------------|--------------|---------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.021 | SE146852.022 | SE146852.023 | SE146852.024 | SE146852.025 |
| % Moisture | %w/w | 0.5 | 21 | 19 | 20 | 12 | 23 |

| | | | HA05/0.05-0.2 | HA05/0.2-0.4 | HA06/0.0-0.2 | HA06/0.5-0.7 | HA06/0.9-1.1 |
|------------|------|-----|---------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.026 | SE146852.027 | SE146852.028 | SE146852.029 | SE146852.030 |
| % Moisture | %w/w | 0.5 | 9.5 | 20 | 8.0 | 18 | 18 |

| | | | DUP01 | DUP02 |
|------------|------|-----|---------------------------|---------------------------|
| | | | SOIL | SOIL |
| | | | - | - |
| PARAMETER | UOM | LOR | 6/12/2015 SE146852.031 | 6/12/2015 SE146852.032 |
| % Moisture | %w/w | 0.5 | 20 | 14 |

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SE146852 R0

Fibre Identification in soil [AN602] Tested: 11/12/2015

| | | | TP01/0.0-0.2 | TP02/0.0-0.2 | TP03/0.0-0.2 | TP04/0.0-0.2 | TP05/0.0-0.2 |
|-------------------|---------|-----|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.001 | SE146852.003 | SE146852.005 | SE146852.007 | SE146852.009 |
| Asbestos Detected | No unit | = | No | No | No | No | No |

| | | | TP06/0.0-0.2 | TP07/0.0-0.2 | HA01/0.3-0.5 | HA02/0.0-0.2 | HA03/0.05-0.2 |
|-------------------|---------|-----|--------------|--------------|--------------|--------------|---------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | | | | - |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.011 | SE146852.014 | SE146852.018 | SE146852.019 | SE146852.021 |
| Asbestos Detected | No unit | - | No | No | No | No | No |

| | | | HA04/0.05-0.2 | HA05/0.2-0.4 | HA06/0.0-0.2 |
|-------------------|---------|-----|---------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL |
| | | | | | |
| | | | 6/12/2015 | 6/12/2015 | 6/12/2015 |
| PARAMETER | иом | LOR | SE146852.024 | SE146852.027 | SE146852.028 |
| Asbestos Detected | No unit | - | No | No | No |

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SE146852 R0

VOCs in Water [AN433/AN434] Tested: 11/12/2015

| | | | Trip Spike | Trip Blank |
|---------------|------|-----|----------------|----------------|
| | | | WATER | WATER |
| | | | - 6/12/2015 | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.033 | SE146852.034 |
| Benzene | μg/L | 0.5 | [75%] | <0.5 |
| Toluene | μg/L | 0.5 | [74%] | <0.5 |
| Ethylbenzene | μg/L | 0.5 | [84%] | <0.5 |
| m/p-xylene | μg/L | 1 | [85%] | <1 |
| o-xylene | μg/L | 0.5 | [86%] | <0.5 |
| Total Xylenes | μg/L | 1.5 | - | <1.5 |
| Total BTEX | μg/L | 3 | - | <3 |
| Naphthalene | μg/L | 0.5 | - | <0.5 |

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PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 8/12/2015

| PARAMETER | υo | M LOR | RB01 WATER - 6/12/2015 SE146852.035 |
|------------------------|-----|-------|--------------------------------------|
| Naphthalene | μg/ | L 0.1 | <0.1 |
| 2-methylnaphthalene | µg/ | L 0.1 | <0.1 |
| 1-methylnaphthalene | µg/ | L 0.1 | <0.1 |
| Acenaphthylene | µg/ | L 0.1 | <0.1 |
| Acenaphthene | μg/ | L 0.1 | <0.1 |
| Fluorene | μg/ | L 0.1 | <0.1 |
| Phenanthrene | μg/ | L 0.1 | <0.1 |
| Anthracene | μg/ | L 0.1 | <0.1 |
| Fluoranthene | µg/ | L 0.1 | <0.1 |
| Pyrene | μg/ | L 0.1 | <0.1 |
| Benzo(a)anthracene | µg/ | L 0.1 | <0.1 |
| Chrysene | μg/ | L 0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/ | L 0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/ | L 0.1 | <0.1 |
| Benzo(a)pyrene | µg/ | L 0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/ | L 0.1 | <0.1 |
| Dibenzo(a&h)anthracene | µg/ | L 0.1 | <0.1 |
| Benzo(ghi)perylene | μg/ | L 0.1 | <0.1 |

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Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 8/12/2015

| | | | RB01 |
|--------------|------|-----|--------------------------------|
| | | | WATER |
| PARAMETER | иом | LOR | - 6/12/2015 SE146852.035 |
| Arsenic, As | μg/L | 1 | <1 |
| Cadmium, Cd | μg/L | 0.1 | <0.1 |
| Chromium, Cr | μg/L | 1 | <1 |
| Copper, Cu | μg/L | 1 | <1 |
| Lead, Pb | μg/L | 1 | <1 |
| Nickel, Ni | μg/L | 1 | <1 |
| Zinc, Zn | μg/L | 5 | <5 |

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SE146852 R0

Mercury (dissolved) in Water [AN311/AN312] Tested: 11/12/2015

| | | | RB01 |
|-----------|------|--------|----------------|
| | | | WATER |
| | | | - 6/12/2015 |
| PARAMETER | UOM | LOR | SE146852.035 |
| Mercury | mg/L | 0.0001 | <0.0001 |

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METHOD SUMMARY



METHOD _____ METHODOLOGY SUMMARY _

AN002

The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.

AN020

Unpreserved water sample is filtered through a $0.45\mu m$ membrane filter and acidified with nitric acid similar to APHA3030B.

AN040/AN320

A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.

AN040

A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.

AN311/AN312

Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.

AN312

Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500

AN318

Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.

AN400

OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)

AN403

Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.

AN403

Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.

AN403

The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN420

(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433/AN434/AN410

VOCs and C6-C9/C6-C10 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

AN433/AN434

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

AN602

Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.

AN602

Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf).

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METHOD SUMMARY

SE146852 R0

AN602

AN602

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

The sample can be reported "no asbestos found at the reporting limit of 0.1~g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES -

NATA accreditation does not cover Not analysed. UOM Unit of Measure. the performance of this service. NVL Not validated. Limit of Reporting. LOR Insufficient sample for analysis. Raised/lowered Limit of Indicative data, theoretical holding IS ↑↓ time exceeded. LNR Sample listed, but not received. Reporting.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

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ANALYTICAL REPORT





CLIENT DETAILS -

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Email

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610.14433.00300 Linfield SGS Reference SE146852 R0 Project SGS PO 20112 07 Dec 2015 Date Received Order Number 13 14 Dec 2015 Samples Date Reported

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

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Senior Organic Chemist

Kinly

Ad Sith

Dong Liang

Metals/Inorganics Team Leader

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SGS

ANALYTICAL REPORT

Fibre Identification in soil Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description | Date Sampled | Fibre Identification |
|-------------------------|---------------------|--------|--------------------------------|---------------|--|
| SE146852.001 | TP01/0.0-0.2 | Soil | 80g Clay, Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found Organic Fibres Detected |
| SE146852.003 | TP02/0.0-0.2 | Soil | 63g Clay, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.005 | TP03/0.0-0.2 | Soil | 50g Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.007 | TP04/0.0-0.2 | Soil | 124g Sand, Soil Rocks | , 06 Dec 2015 | No Asbestos Found Organic Fibres Detected |
| SE146852.009 | TP05/0.0-0.2 | Soil | 78g Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found Organic Fibres Detected |
| SE146852.011 | TP06/0.0-0.2 | Soil | 62g Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.014 | TP07/0.0-0.2 | Soil | 52g Clay, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.018 | HA01/0.3-0.5 | Soil | 70g Clay, Sand, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.019 | HA02/0.0-0.2 | Soil | 50g Clay, Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.021 | HA03/0.05-0.2 | Soil | 70g Clay, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.024 | HA04/0.05-0.2 | Soil | 57g Clay, Soil, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.027 | HA05/0.2-0.4 | Soil | 62g Clay, Rocks | 06 Dec 2015 | No Asbestos Found |
| SE146852.028 | HA06/0.0-0.2 | Soil | 76g Clay, Sand, Soil, Rocks | 06 Dec 2015 | No Asbestos Found Organic Fibres Detected |

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METHOD SUMMARY

METHOD

METHODOLOGY SUMMARY

AN602

Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.

AN602

Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as

unknown mineral fibres (umf).

AN602

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602

The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES -

Amosite - Brown Asbestos NA - Not Analysed
Chrysotile - White Asbestos LNR - Listed, Not Required

Crocidolite - Blue Asbestos * - NATA accreditation does not cover the performance of this service .

Amphiboles - Amosite and/or Crocidolite ** - Indicative data, theoretical holding time exceeded.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos -containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This test report shall not be reproduced, except in full.

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STATEMENT OF QA/QC PERFORMANCE

CLIENT DETAILS LABORATORY DETAILS

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 Project
 610.14433.00300 Linfield
 SGS Reference
 SE146852 R0

 Order Number
 SGS PO 20112
 Date Received
 07 Dec 2015

Samples 35 Date Reported 16 Dec 2015

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS Environmental Services' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document and was supplied by the Client. This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate Total Recoverable Metals in Soil by ICPOES 1 item

Total Recoverable Metals in Soil by ICPOES 1 item

Matrix Spike PAH (Polynuclear Aromatic Hydrocarbons) in Soil 2 items

SAMPLE SUMMARY

Complete documentation received

Sample counts by matrix 32 Soil, 3 Water Type of documentation received COC 7/12/2015 Samples received in good order Date documentation received Yes 6.9°C Samples received without headspace Yes Sample temperature upon receipt Turnaround time requested Sample container provider SGS Standard Samples received in correct containers Yes Sufficient sample for analysis Yes Sample cooling method Ice Bricks Samples clearly labelled Yes

Yes

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Extracted Analysis Due Analysed



Cample Name

HOLDING TIME SUMMARY

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Fibre Identification in soil Method: ME-(AU)-[ENV]AN602

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP01/0.0-0.2 | SE146852.001 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| TP07/0.0-0.2 | SE146852.014 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA01/0.3-0.5 | SE146852.018 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA02/0.0-0.2 | SE146852.019 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA03/0.05-0.2 | SE146852.021 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA04/0.05-0.2 | SE146852.024 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA05/0.2-0.4 | SE146852.027 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091593 | 06 Dec 2015 | 07 Dec 2015 | 05 Dec 2016 | 11 Dec 2015 | 05 Dec 2016 | 14 Dec 2015 |
| | | | | | | | | |

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312 Sample No. Received Extraction Due Extracted Analysis Due Analysed

| RB01 | SE146852.035 | LB091595 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
|------|--------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | |
| | | | | | | | | |

Mercury in Soil Method: ME-(AU)-[ENV]AN312

| PP010.3-0.5 SE146852.002 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 17 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 17 Dec 2015 03 Jan 2016 18 Dec 2015 03 | Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--|---------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| PP02/0.0-0.2 SE148852.003 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P03/0.0-0.2 SE148852.006 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P03/0.3-0.5 SE148852.007 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P04/0.0-0.2 SE148852.007 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 17 P04/0.0-0.2 SE148852.008 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P05/0.0-0.2 SE148852.009 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P05/0.0-0.2 SE148852.010 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P05/0.0-0.2 SE148852.011 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P05/0.0-0.2 SE148852.011 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P05/0.0-0.2 SE148852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P07/0.0-0.2 SE148852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P07/0.0-0.2 SE148852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 P07/0.0-0.1 SE148852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 | TP01/0.0-0.2 | SE146852.001 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| P03/0.0-0.2 SE14885.005 | TP01/0.3-0.5 | SE146852.002 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| PP03/0.3-0.5 SE146852.006 | TP02/0.0-0.2 | SE146852.003 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPO4I/0.0-0.2 SE146852.007 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO4I/0.3-0.5 SE146852.008 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO5I/0.0-0.2 SE146852.009 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO5I/0.0-0.2 SE146852.010 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO5I/0.0-0.2 SE146852.011 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.013 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.7-0.9 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.018 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17PO7I/0.0-0.2 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 | TP03/0.0-0.2 | SE146852.005 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPOHIO.3-0.5 SE14685.208 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | TP03/0.3-0.5 | SE146852.006 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPOS/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 17 Dec 2015 17 Dec 2015 18 Dec | TP04/0.0-0.2 | SE146852.007 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPOS/0.4/0.6 SE146852.010 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.2 SE146852.011 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.1-1.3 SE146852.013 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.2 SE146852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.2 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 POS/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | TP04/0.3-0.5 | SE146852.008 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPO6/0.0-0.2 SE146852.011 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 17 Dec 2015 18 Dec | TP05/0.0-0.2 | SE146852.009 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPO6/1.1-1.3 SE146852.013 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.0-0.2 SE146852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.7-0.9 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.9-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.0-0.2 SE146852.018 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.0-0.2 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.2 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.2 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.2 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.6 SE146852.022 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.9 SE146852.023 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.0-0.0 SE146852.024 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.0-0.0 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.0 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.0 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.0-0.0 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.0-0.0 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | TP05/0.4/0.6 | SE146852.010 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPO7/0.0-0.2 SE146852.014 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.7-0.9 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.9-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.3-0.5 SE146852.018 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.0-0.4 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.05-0.2 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.05-0.2 SE146852.022 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.7-0.9 SE146852.023 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.05-0.2 SE146852.024 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | TP06/0.0-0.2 | SE146852.011 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TPO7/0.7-0.9 SE146852.015 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 TPO7/0.9-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA01/0.3-0.5 SE146852.018 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA02/0.2-0.4 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.2 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.0 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.0-0.0 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.4-0.6 SE146852.022 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA03/0.7-0.9 SE146852.023 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.0-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA04/0.0-0.2 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.026 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.027 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.0-0.2 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | TP06/1.1-1.3 | SE146852.013 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| TP07/0.9-1.1 SE146852.016 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 17 Dec 2015 17 Dec 2015 18 Dec | TP07/0.0-0.2 | SE146852.014 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HAD1/0.0-0.2 SE146852.017 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 17 Dec 2015 18 Dec | TP07/0.7-0.9 | SE146852.015 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HAD1/0.3-0.5 SE146852.018 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 17 Dec 2015 17 Dec 2015 18 Dec | TP07/0.9-1.1 | SE146852.016 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA02/0.0-0.2 SE146852.019 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 17 Dec 2015 17 Dec 2015 18 Dec | HA01/0.0-0.2 | SE146852.017 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA02/0.2-0.4 SE146852.020 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec | HA01/0.3-0.5 | SE146852.018 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA03/0.05-0.2 SE146852.021 LB091568 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 18 Dec | HA02/0.0-0.2 | SE146852.019 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA03/0.4-0.6 SE146852.022 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 18 Dec | HA02/0.2-0.4 | SE146852.020 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA03/0.7-0.9 SE146852.023 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec | HA03/0.05-0.2 | SE146852.021 | LB091568 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA04/0.05-0.2 SE146852.024 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 14 Dec 2015 15 Dec 2015 15 Dec 2015 16 Dec 2015 17 Dec 2015 18 Dec | HA03/0.4-0.6 | SE146852.022 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA04/0.2-0.4 SE146852.025 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.05-0.2 SE146852.026 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.2-0.4 SE146852.027 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.5-0.7 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA03/0.7-0.9 | SE146852.023 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA05/0.05-0.2 SE146852.026 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA05/0.2-0.4 SE146852.027 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.5-0.7 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA04/0.05-0.2 | SE146852.024 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA05/0.2-0.4 SE146852.027 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.5-0.7 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA04/0.2-0.4 | SE146852.025 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 SE146852.028 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 HA06/0.5-0.7 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA05/0.05-0.2 | SE146852.026 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| HA06/0.5-0.7 SE146852.029 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA05/0.2-0.4 | SE146852.027 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| | HA06/0.0-0.2 | SE146852.028 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| DUP01 SE146852.031 LB091641 06 Dec 2015 07 Dec 2015 03 Jan 2016 11 Dec 2015 03 Jan 2016 14 Dec 2015 | HA06/0.5-0.7 | SE146852.029 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |
| | DUP01 | SE146852.031 | LB091641 | 06 Dec 2015 | 07 Dec 2015 | 03 Jan 2016 | 11 Dec 2015 | 03 Jan 2016 | 14 Dec 2015 |

Moisture Content Method: ME-(AU)-[ENV]AN002

| Sample Name | Sample No. | QC IVE | Sampled | Received | LAMACHOII DUE | LAHACIEU | Allalysis Due | Allalyseu |
|--------------|--------------|----------|-------------|-------------|---------------|-------------|---------------|-------------|
| TP01/0.0-0.2 | SE146852.001 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP01/0.3-0.5 | SE146852.002 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP02/0.3-0.5 | SE146852.004 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP03/0.3-0.5 | SE146852.006 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP04/0.3-0.5 | SE146852.008 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| | | | | | | | | |

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HOLDING TIME SUMMARY

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content (continued) Method: ME-(AU)-[ENV]AN002

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP05/0.4/0.6 | SE146852.010 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP06/0.5-0.7 | SE146852.012 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP06/1.1-1.3 | SE146852.013 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP07/0.0-0.2 | SE146852.014 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| TP07/0.9-1.1 | SE146852.016 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA01/0.3-0.5 | SE146852.018 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA02/0.0-0.2 | SE146852.019 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA02/0.2-0.4 | SE146852.020 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA03/0.05-0.2 | SE146852.021 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA03/0.7-0.9 | SE146852.023 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA04/0.05-0.2 | SE146852.024 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA05/0.05-0.2 | SE146852.026 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA05/0.2-0.4 | SE146852.027 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| HA06/0.9-1.1 | SE146852.030 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| DUP01 | SE146852.031 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |
| DUP02 | SE146852.032 | LB091319 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 13 Dec 2015 | 10 Dec 2015 |

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP01/0.0-0.2 | SE146852.001 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.3-0.5 | SE146852.004 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP05/0.4/0.6 | SE146852.010 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.5-0.7 | SE146852.012 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/1.1-1.3 | SE146852.013 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.0-0.2 | SE146852.014 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.9-1.1 | SE146852.016 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA02/0.2-0.4 | SE146852.020 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.7-0.9 | SE146852.023 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.9-1.1 | SE146852.030 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| DUP02 | SE146852.032 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP01/0.0-0.2 | SE146852.001 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.3-0.5 | SE146852.004 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP05/0.4/0.6 | SE146852.010 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.5-0.7 | SE146852.012 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/1.1-1.3 | SE146852.013 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |

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HOLDING TIME SUMMARY

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP07/0.0-0.2 | SE146852.014 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.9-1.1 | SE146852.016 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA02/0.2-0.4 | SE146852.020 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.7-0.9 | SE146852.023 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.9-1.1 | SE146852.030 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| DUP02 | SE146852.032 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| RB01 | SE146852.035 | LB091364 | 06 Dec 2015 | 07 Dec 2015 | 13 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |

Total Recoverable Metals in Soil by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP01/0.0-0.2 | SE146852.001 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP01/0.3-0.5 | SE146852.002 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP03/0.3-0.5 | SE146852.006 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP04/0.3-0.5 | SE146852.008 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP05/0.4/0.6 | SE146852.010 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP06/1.1-1.3 | SE146852.013 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP07/0.0-0.2 | SE146852.014 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| TP07/0.9-1.1 | SE146852.016 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| HA01/0.3-0.5 | SE146852.018 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| HA02/0.0-0.2 | SE146852.019 | LB091457 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 11 Dec 2015 |
| HA02/0.2-0.4 | SE146852.020 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA03/0.05-0.2 | SE146852.021 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA03/0.7-0.9 | SE146852.023 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA04/0.05-0.2 | SE146852.024 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA05/0.05-0.2 | SE146852.026 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA05/0.2-0.4 | SE146852.027 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |
| DUP01 | SE146852.031 | LB091458 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 10 Dec 2015 | 03 Jun 2016 | 14 Dec 2015 |

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| RB01 | SE146852.035 | LB091351 | 06 Dec 2015 | 07 Dec 2015 | 03 Jun 2016 | 08 Dec 2015 | 03 Jun 2016 | 09 Dec 2015 |

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| · · · · · · · · · · · · · · · · · · · | • | | | | | | | |
|---------------------------------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
| TP01/0.0-0.2 | SE146852.001 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.0-0.2 | SE146852.003 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP02/0.3-0.5 | SE146852.004 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP04/0.0-0.2 | SE146852.007 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |

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HOLDING TIME SUMMARY

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP05/0.4/0.6 | SE146852.010 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/0.5-0.7 | SE146852.012 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP06/1.1-1.3 | SE146852.013 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.0-0.2 | SE146852.014 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| TP07/0.9-1.1 | SE146852.016 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA02/0.2-0.4 | SE146852.020 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA03/0.7-0.9 | SE146852.023 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.0-0.2 | SE146852.028 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091353 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| HA06/0.9-1.1 | SE146852.030 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |
| DUP02 | SE146852.032 | LB091355 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 14 Dec 2015 |

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP02/0.0-0.2 | SE146852.003 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |

VOCs in Water

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| Trip Spike | SE146852.033 | LB091562 | 06 Dec 2015 | 07 Dec 2015 | 13 Dec 2015 | 11 Dec 2015 | 20 Jan 2016 | 14 Dec 2015 |
| Trip Blank | SE146852.034 | LB091562 | 06 Dec 2015 | 07 Dec 2015 | 13 Dec 2015 | 11 Dec 2015 | 20 Jan 2016 | 14 Dec 2015 |

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Anaiysed |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| TP02/0.0-0.2 | SE146852.003 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP03/0.0-0.2 | SE146852.005 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP05/0.0-0.2 | SE146852.009 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP06/0.0-0.2 | SE146852.011 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| TP07/0.7-0.9 | SE146852.015 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA01/0.0-0.2 | SE146852.017 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA03/0.4-0.6 | SE146852.022 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA04/0.2-0.4 | SE146852.025 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |
| HA06/0.5-0.7 | SE146852.029 | LB091359 | 06 Dec 2015 | 07 Dec 2015 | 20 Dec 2015 | 08 Dec 2015 | 17 Jan 2016 | 11 Dec 2015 |

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Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

| OC Pesticides in Soil | Method: MF-(ALI)-IFNVIAN400/AN4 | .20 |
|-----------------------|---------------------------------|-----|

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|--------------|---------------|-------|-----------|------------|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | TP01/0.0-0.2 | SE146852.001 | % | 60 - 130% | 106 |
| | TP04/0.0-0.2 | SE146852.007 | % | 60 - 130% | 105 |
| | TP07/0.0-0.2 | SE146852.014 | % | 60 - 130% | 103 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 103 |
| | HA06/0.0-0.2 | SE146852.028 | % | 60 - 130% | 100 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

| AH (Polynuclear Aromatic Hydrocarbons) in Soil | | | | Method: ME-(AU)-[ENV]AN4 | | |
|--|--------------|---------------|---------------|--------------------------|-----------------------|--|
| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery ^c | |
| 2-fluorobiphenyl (Surrogate) | TP01/0.0-0.2 | SE146852.001 | % | 70 - 130% | 94 | |
| | TP02/0.0-0.2 | SE146852.003 | % | 70 - 130% | 94 | |
| | TP02/0.3-0.5 | SE146852.004 | % | 70 - 130% | 94 | |
| | TP03/0.0-0.2 | SE146852.005 | % | 70 - 130% | 96 | |
| | TP05/0.0-0.2 | SE146852.009 | % | 70 - 130% | 84 | |
| | TP05/0.4/0.6 | SE146852.010 | % | 70 - 130% | 92 | |
| | TP06/0.0-0.2 | SE146852.011 | % | 70 - 130% | 90 | |
| | TP06/0.5-0.7 | SE146852.012 | % | 70 - 130% | 94 | |
| | TP06/1.1-1.3 | SE146852.013 | % | 70 - 130% | 90 | |
| | TP07/0.7-0.9 | SE146852.015 | % | 70 - 130% | 88 | |
| | TP07/0.9-1.1 | SE146852.016 | % | 70 - 130% | 86 | |
| | HA01/0.0-0.2 | SE146852.017 | % | 70 - 130% | 88 | |
| | HA02/0.2-0.4 | SE146852.020 | % | 70 - 130% | 88 | |
| | HA03/0.4-0.6 | SE146852.022 | % | 70 - 130% | 92 | |
| | HA03/0.7-0.9 | SE146852.023 | % | 70 - 130% | 88 | |
| | HA04/0.2-0.4 | SE146852.025 | % | 70 - 130% | 86 | |
| | HA06/0.5-0.7 | SE146852.029 | % | 70 - 130% | 92 | |
| | HA06/0.9-1.1 | SE146852.030 | % | 70 - 130% | 86 | |
| | DUP02 | SE146852.032 | % | 70 - 130% | 94 | |
| 14-p-terphenyl (Surrogate) | TP01/0.0-0.2 | SE146852.001 | % | 70 - 130% | 104 | |
| r p tolphony. (canogato) | TP02/0.0-0.2 | SE146852.003 | % | 70 - 130% | 108 | |
| | TP02/0.3-0.5 | SE146852.004 | % | 70 - 130% | 112 | |
| | TP03/0.0-0.2 | SE146852.005 | % | 70 - 130% | 104 | |
| | TP05/0.0-0.2 | SE146852.009 | % | 70 - 130% | 98 | |
| | TP05/0.4/0.6 | SE146852.010 | % | 70 - 130% | 96 | |
| | TP06/0.0-0.2 | SE146852.011 | % | 70 - 130% | 94 | |
| | TP06/0.5-0.7 | SE146852.012 | % | 70 - 130% | 92 | |
| | TP06/1.1-1.3 | SE146852.013 | % | 70 - 130% | 100 | |
| | TP07/0.7-0.9 | SE146852.015 | % | 70 - 130% | 104 | |
| | TP07/0.9-1.1 | SE146852.016 | % % | 70 - 130% | 94 | |
| | HA01/0.0-0.2 | SE146852.017 | % % | 70 - 130% | 92 | |
| | HA02/0.2-0.4 | SE146852.020 | % % | 70 - 130% | 100 | |
| | HA03/0.4-0.6 | SE146852.022 | % % | 70 - 130% | 100 | |
| | | | | | | |
| | HA03/0.7-0.9 | SE146852.023 | % | 70 - 130% | 102 | |
| | HA04/0.2-0.4 | SE146852.025 | % | 70 - 130% | 92 | |
| | HA06/0.5-0.7 | SE146852.029 | % | 70 - 130% | 102 | |
| | HA06/0.9-1.1 | SE146852.030 | <u>%</u> % | 70 - 130% | 100 | |
| = sitrahaanaa (Curranata) | DUP02 | SE146852.032 | | 70 - 130% | 108 | |
| 5-nitrobenzene (Surrogate) | TP01/0.0-0.2 | SE146852.001 | _ | 70 - 130% | 96 | |
| | TP02/0.0-0.2 | SE146852.003 | % | 70 - 130% | 102 | |
| | TP02/0.3-0.5 | SE146852.004 | % | 70 - 130% | 106 | |
| | TP03/0.0-0.2 | SE146852.005 | % | 70 - 130% | 96 | |
| | TP05/0.0-0.2 | SE146852.009 | % | 70 - 130% | 88 | |
| | TP05/0.4/0.6 | SE146852.010 | % | 70 - 130% | 106 | |
| | TP06/0.0-0.2 | SE146852.011 | % | 70 - 130% | 98 | |
| | TP06/0.5-0.7 | SE146852.012 | % | 70 - 130% | 100 | |
| | TP06/1.1-1.3 | SE146852.013 | <u>%</u> | 70 - 130% | 96 | |
| | TP07/0.7-0.9 | SE146852.015 | <u>%</u> | 70 - 130% | 100 | |
| | TP07/0.9-1.1 | SE146852.016 | % | 70 - 130% | 94 | |
| | HA01/0.0-0.2 | SE146852.017 | % | 70 - 130% | 92 | |
| | HA02/0.2-0.4 | SE146852.020 | % | 70 - 130% | 94 | |
| | HA03/0.4-0.6 | SE146852.022 | % | 70 - 130% | 92 | |
| | HA03/0.7-0.9 | SE146852.023 | % | 70 - 130% | 98 | |

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Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|-----------------------------|--------------|---------------|-------|-----------|------------|
| d5-nitrobenzene (Surrogate) | HA04/0.2-0.4 | SE146852.025 | % | 70 - 130% | 88 |
| | HA06/0.5-0.7 | SE146852.029 | % | 70 - 130% | 98 |
| | HA06/0.9-1.1 | SE146852.030 | % | 70 - 130% | 100 |
| | DUP02 | SE146852.032 | % | 70 - 130% | 102 |

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|------------------------------|-------------|---------------|-------|-----------|------------|
| 2-fluorobiphenyl (Surrogate) | RB01 | SE146852.035 | % | 40 - 130% | 72 |
| d14-p-terphenyl (Surrogate) | RB01 | SE146852.035 | % | 40 - 130% | 106 |
| d5-nitrobenzene (Surrogate) | RB01 | SE146852.035 | % | 40 - 130% | 78 |

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|-----------------------------------|--------------|---------------|-------|-----------|------------|
| Bromofluorobenzene (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 75 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 70 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 77 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 74 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 87 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 75 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 70 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 76 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 77 |
| d4-1,2-dichloroethane (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 94 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 85 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 106 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 89 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 95 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 92 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 89 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 89 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 92 |
| d8-toluene (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 92 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 83 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 104 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 89 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 102 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 91 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 85 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 86 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 93 |
| Dibromofluoromethane (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 80 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 73 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 90 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 78 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 79 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 79 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 77 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 78 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 77 |
| | | | | | |

VOCs in Water

Method: ME-(AU)-[ENV]AN433/AN434

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|-----------------------------------|-------------|---------------|-------|-----------|------------|
| Bromofluorobenzene (Surrogate) | Trip Spike | SE146852.033 | % | 40 - 130% | 103 |
| | Trip Blank | SE146852.034 | % | 40 - 130% | 114 |
| d4-1,2-dichloroethane (Surrogate) | Trip Spike | SE146852.033 | % | 40 - 130% | 102 |
| | Trip Blank | SE146852.034 | % | 40 - 130% | 113 |
| d8-toluene (Surrogate) | Trip Spike | SE146852.033 | % | 40 - 130% | 89 |
| | Trip Blank | SE146852.034 | % | 40 - 130% | 90 |
| Dibromofluoromethane (Surrogate) | Trip Spike | SE146852.033 | % | 40 - 130% | 105 |
| | Trip Blank | SE146852.034 | % | 40 - 130% | 120 |

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Parameter Sample Name Sample Number Units |
|---|
|---|

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SURROGATES



Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

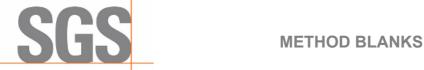
Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Totalio Foliocali Hydrocarbotic in Contanacty | | | | | |
|---|--------------|---------------|-------|-----------|------------|
| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
| Bromofluorobenzene (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 75 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 70 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 77 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 74 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 87 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 75 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 70 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 76 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 77 |
| l4-1,2-dichloroethane (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 94 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 85 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 106 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 89 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 95 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 92 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 89 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 89 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 92 |
| 8-toluene (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 92 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 83 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 104 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 89 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 102 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 91 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 85 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 86 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 93 |
| bibromofluoromethane (Surrogate) | TP02/0.0-0.2 | SE146852.003 | % | 60 - 130% | 80 |
| | TP03/0.0-0.2 | SE146852.005 | % | 60 - 130% | 73 |
| | TP05/0.0-0.2 | SE146852.009 | % | 60 - 130% | 90 |
| | TP06/0.0-0.2 | SE146852.011 | % | 60 - 130% | 78 |
| | TP07/0.7-0.9 | SE146852.015 | % | 60 - 130% | 79 |
| | HA01/0.0-0.2 | SE146852.017 | % | 60 - 130% | 79 |
| | HA03/0.4-0.6 | SE146852.022 | % | 60 - 130% | 77 |
| | HA04/0.2-0.4 | SE146852.025 | % | 60 - 130% | 78 |
| | HA06/0.5-0.7 | SE146852.029 | % | 60 - 130% | 77 |
| | | | | | |

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Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria.

| Mercury (dissolved) in Water | Mercury (dissolved) in Water | | Method: ME | -(AU)-[ENV]AN311/AN312 |
|------------------------------|------------------------------|-------|------------|------------------------|
| Sample Number | Parameter | Units | LOR | Result |
| I B091595 001 | Mercury | ma/l | 0.0001 | <0.0001 |

Mercury in Soil Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result |
|---------------|-----------|-------|------|--------|
| LB091568.001 | Mercury | mg/kg | 0.01 | <0.01 |
| LB091641.001 | Mercury | mg/kg | 0.01 | <0.01 |

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

| imple Number | Parameter | Units | LOR | Result |
|--------------|---|-------|---|--------|
| 091353.001 | Hexachlorobenzene (HCB) | mg/kg | LOR 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 | <0.1 |
| | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | Lindane | mg/kg | 0.1 | <0.1 |
| | Heptachlor | mg/kg | 0.1 | <0.1 |
| | Aldrin | mg/kg | 0.1 | <0.1 |
| | Beta BHC | mg/kg | 0.1 | <0.1 |
| | Delta BHC | mg/kg | 0.1 | <0.1 |
| | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | Dieldrin | mg/kg | 0.2 | <0.2 |
| | Endrin | mg/kg | 0.2 | <0.2 |
| | Beta Endosulfan | mg/kg | 0.2 | <0.2 |
| | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | Endrin Aldehyde | mg/kg | 0.1 | <0.1 |
| | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | Endrin Ketone | mg/kg | 0.1 | <0.1 |
| | Isodrin | mg/kg | 0.1 | <0.1 |
| | Mirex | mg/kg | 0.1 | <0.1 |
| Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 93 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---------------|--------------------|------------------------------|-------|----------|--------|
| LB091353.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | Fluoranthene | mg/kg | 0.1 | <0.1 | |
| | Pyrene | mg/kg | 0.1 | <0.1 | |
| | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | |
| | Chrysene | mg/kg | 0.1 | <0.1 | |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 106 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 114 |
| | | d14-p-terphenyl (Surrogate) | % | <u> </u> | 114 |
| LB091355.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |

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METHOD BLANKS

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result |
|---------------|------------------------------|-------|-----|--------|
| LB091355.001 | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | Fluorene | mg/kg | 0.1 | <0.1 |
| | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | Anthracene | mg/kg | 0.1 | <0.1 |
| | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | Pyrene | mg/kg | 0.1 | <0.1 |
| | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | Chrysene | mg/kg | 0.1 | <0.1 |
| | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 |
| | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| Surrogates | d5-nitrobenzene (Surrogate) | % | - | 100 |
| | 2-fluorobiphenyl (Surrogate) | % | - | 92 |
| | d14-p-terphenyl (Surrogate) | % | - | 98 |

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result |
|---------------|------------------------------|-------|----------|--------|
| LB091364.001 | Naphthalene | μg/L | 0.1 | <0.1 |
| | 2-methylnaphthalene | μg/L | 0.1 | <0.1 |
| | 1-methylnaphthalene | μg/L | 0.1 | <0.1 |
| | Acenaphthylene | μg/L | 0.1 | <0.1 |
| | Acenaphthene | μg/L | 0.1 | <0.1 |
| | Fluorene | μg/L | 0.1 | <0.1 |
| | Phenanthrene | μg/L | 0.1 | <0.1 |
| | Anthracene | μg/L | 0.1 | <0.1 |
| | Fluoranthene | μg/L | 0.1 | <0.1 |
| | Pyrene | μg/L | 0.1 | <0.1 |
| | Benzo(a)anthracene | μg/L | 0.1 | <0.1 |
| | Chrysene | μg/L | 0.1 | <0.1 |
| | Benzo(a)pyrene | μg/L | 0.1 | <0.1 |
| | Indeno(1,2,3-cd)pyrene | μg/L | 0.1 | <0.1 |
| | Dibenzo(a&h)anthracene | μg/L | 0.1 | <0.1 |
| | Benzo(ghi)perylene | μg/L | 0.1 | <0.1 |
| Surrogates | d5-nitrobenzene (Surrogate) | % | <u>-</u> | 92 |
| | 2-fluorobiphenyl (Surrogate) | % | <u>-</u> | 88 |
| | d14-p-terphenyl (Surrogate) | % | - | 122 |

Total Recoverable Metals in Soil by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result |
|---------------|--------------|-------|-----|--------|
| LB091457.001 | Arsenic, As | mg/kg | 3 | <3 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.3 | <0.3 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Zinc, Zn | mg/kg | 0.5 | <0.5 |
| LB091458.001 | Arsenic, As | mg/kg | 3 | <3 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.3 | <0.3 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Zinc, Zn | mg/kg | 0.5 | <0.5 |

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---------------|--------------|-------|-----|--------|
| LB091351.001 | Arsenic, As | μg/L | 1 | <1 |
| | Cadmium, Cd | μg/L | 0.1 | <0.1 |
| | Chromium, Cr | μg/L | 1 | <1 |

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METHOD BLANKS

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria.

| Trace | Metale | (Dissolver | d) in Water | by ICPMS | (continued) |
|-------|--------|------------|-------------|----------|-------------|
| | | | | | |

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result |
|---------------|------------|-------|-----|--------|
| LB091351.001 | Copper, Cu | μg/L | 1 | <1 |
| | Lead, Pb | μg/L | 1 | <1 |
| | Nickel, Ni | μg/L | 1 | <1 |
| | Zinc, Zn | μg/L | 5 | <5 |

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | Parameter | Units | LOR | Result |
|---------------|-------------------|-------|-----|--------|
| LB091353.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Number | | Parameter | Units | LOR | Result |
|---------------|---------------------|-----------------------------------|-------|-----|--------|
| LB091359.001 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | <0.1 |
| | Hydrocarbons | Toluene | mg/kg | 0.1 | <0.1 |
| | | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | Polycyclic VOCs | Naphthalene | mg/kg | 0.1 | <0.1 |
| | Surrogates | Dibromofluoromethane (Surrogate) | % | = | 94 |
| | | d4-1,2-dichloroethane (Surrogate) | % | - | 108 |
| | | d8-toluene (Surrogate) | % | - | 105 |
| | | Bromofluorobenzene (Surrogate) | % | - | 92 |
| | Totals | Total BTEX* | mg/kg | 0.6 | <0.6 |

VOCs in Water

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Number | | Parameter | Units | LOR | Result |
|---------------|---------------------|-----------------------------------|-------|-----|--------|
| LB091562.001 | Monocyclic Aromatic | Benzene | μg/L | 0.5 | <0.5 |
| | Hydrocarbons | Toluene | μg/L | 0.5 | <0.5 |
| | | Ethylbenzene | μg/L | 0.5 | <0.5 |
| | | m/p-xylene | μg/L | 1 | <1 |
| | | o-xylene | μg/L | 0.5 | <0.5 |
| | Polycyclic VOCs | Naphthalene | μg/L | 0.5 | <0.5 |
| | Surrogates | Dibromofluoromethane (Surrogate) | % | - | 128 |
| | | d4-1,2-dichloroethane (Surrogate) | % | - | 122 |
| | | d8-toluene (Surrogate) | % | - | 92 |
| | | Bromofluorobenzene (Surrogate) | % | - | 109 |

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Sample Number | | Parameter | Units | LOR | Result |
|---------------|------------|-----------------------------------|-------|-----|--------|
| LB091359.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1 2-dichloroethane (Surrogate) | 0/2 | _ | 108 |

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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311/AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------|-------|--------|----------|-----------|------------|-------|
| SE146856.001 | LB091595.014 | Mercury | μg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 0 |

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------|-------|------|----------|-----------|------------|-------|
| SE146852.011 | LB091568.014 | Mercury | mg/kg | 0.01 | 0.33 | 0.34 | 45 | 3 |
| SE146852.021 | LB091568.024 | Mercury | mg/kg | 0.01 | 0.08 | 0.05 | 112 | 42 |
| SE147051.002 | LB091641.014 | Mercury | mg/kg | 0.01 | <0.01 | <0.01 | 200 | 0 |

Moisture Content

Method: ME-(AU)-[ENV]AN002

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-------|-----|----------|-----------|------------|-------|
| SE146852.008 | LB091319.011 | % Moisture | %w/w | 0.5 | 21 | 21 | 35 | 2 |
| SE146852.018 | LB091319.022 | % Moisture | %w/w | 0.5 | 16 | 15 | 36 | 2 |
| SE146852.028 | LB091319.033 | % Moisture | %w/w | 0.5 | 8.0 | 8.0 | 43 | 0 |
| SE146855.001 | LB091319.039 | % Moisture | %w/w | 0.5 | 11 | 12 | 39 | 7 |

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|-------------|--------------|---|-------|-----|----------|-----------|--|-------|
| E146852.017 | LB091353.028 | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 200 <0.2 200 <0.1 200 <0.2 200 <0.1 200 | 0 |
| | | Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Lindane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | o,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Dieldrin | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | Endrin | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | o,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | o,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Endrin Aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Endrin Ketone | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Mirex | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.15 | 0.15 | 30 | 0 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|---------------------|-------|-----|----------|-----------|------------|-------|
| SE146852.004 | LB091353.027 | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |

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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|---|-------------|-----|----------|-----------|------------|-------|
| SE146852.004 | LB091353.027 | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | | | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | | | | | |
| | | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td><0.2</td><td><0.2</td><td>200</td><td>0</td></lor=0*<> | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td><0.3</td><td><0.3</td><td>134</td><td>0</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | 134 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td><0.2</td><td><0.2</td><td>175</td><td>0</td></lor=lor> | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | 175 | 0 |
| | | | Total PAH (18) | mg/kg | 8.0 | <0.8 | <0.8 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 4 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.6 | 0.5 | 30 | 4 |
| SE146852.017 | LB091353.028 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | | | 0.1 | <0.1 | 0.1 | 135 | 0 |
| | | | Phenanthrene | mg/kg | | | | | |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | 0.2 | 0.3 | 72 | 50 |
| | | | Pyrene | mg/kg | 0.1 | 0.1 | 0.2 | 84 | 59 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0.1 | 0.2 | 97 | 67 |
| | | | Chrysene | mg/kg | 0.1 | 0.1 | 0.2 | 101 | 57 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.1 | 0.2 | 99 | 62 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.1 | 0.2 | 104 | 52 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0.1 | 0.2 | 93 | 38 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.1 | 0.2 | 104 | 52 |
| | | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.1 | 0.1 | 117 | 26 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td><0.2</td><td>0.3</td><td>101</td><td>28</td></lor=0*<> | TEQ (mg/kg) | 0.2 | <0.2 | 0.3 | 101 | 28 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td><0.3</td><td>0.4</td><td>104</td><td>20</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | <0.3 | 0.4 | 104 | 20 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.2</td><td>0.3</td><td>84</td><td>35</td></lor=lor> | TEQ (mg/kg) | 0.2 | 0.2 | 0.3 | 84 | 35 |
| | | | | | | | | | 57 |
| | | | Total PAH (18) | mg/kg | 0.8 | 1.0 | 1.9 | 85 | |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 9 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| SE146859.008 | LB091355.014 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | 0.2 | 0.2 | 80 | 0 |
| | | | Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 197 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | 0.5 | 0.5 | 50 | 8 |
| | | | | | 0.1 | 0.5 | | | 9 |
| | | | Pyrene | mg/kg | | | 0.5 | 53 | |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0.3 | 0.3 | 63 | 10 |
| | | | Chrysene | mg/kg | 0.1 | 0.2 | 0.3 | 70 | 8 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0.3 | 0.3 | 66 | 11 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.2 | 0.2 | 75 | 9 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0.4 | 0.4 | 57 | 5 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.2 | 0.3 | 69 | 12 |
| | | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.2 | 0.2 | 83 | 11 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.5</td><td>0.5</td><td>52</td><td>2</td></lor=0*<> | TEQ (mg/kg) | 0.2 | 0.5 | 0.5 | 52 | 2 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>0.6</td><td>0.6</td><td>62</td><td>1</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | 0.6 | 0.6 | 62 | 1 |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>0.5</td><td>0.5</td><td>48</td><td>1</td></lor=lor> | TEQ (mg/kg) | 0.2 | 0.5 | 0.5 | 48 | 1 |
| | | | Total PAH (18) | | 0.8 | 2.9 | 3.1 | 56 | 7 |
| | | Surrogates | | mg/kg | | 0.5 | 0.5 | 30 | 2 |
| | | | d5-nitrobenzene (Surrogate) | mg/kg | - | | | | |

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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|------------------------------|-------|-----|----------|-----------|--------------|-------|
| SE146859.008 | LB091355.014 | Surrogates | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 30 | 7 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 4 |
| | | | | | | | | (ALD PEND #A | |

Total Recoverable Metals in Soil by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|--------------|-------|-----|----------|-----------|------------|-------|
| SE146852.009 | LB091457.014 | Arsenic, As | mg/kg | 3 | 3 | 3 | 61 | 13 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.3 | 0.4 | 112 | 12 |
| | | Chromium, Cr | mg/kg | 0.3 | 13 | 13 | 34 | 0 |
| | | Copper, Cu | mg/kg | 0.5 | 32 | 35 | 31 | 7 |
| | | Lead, Pb | mg/kg | 1 | 210 | 270 | 30 | 22 |
| | | Nickel, Ni | mg/kg | 0.5 | 2.5 | 2.6 | 50 | 2 |
| | | Zinc, Zn | mg/kg | 0.5 | 61 | 67 | 33 | 10 |
| SE146852.019 | LB091457.024 | Arsenic, As | mg/kg | 3 | 9 | 16 | 38 | 56 ② |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.5 | 0.4 | 98 | 22 |
| | | Chromium, Cr | mg/kg | 0.3 | 17 | 15 | 33 | 10 |
| | | Copper, Cu | mg/kg | 0.5 | 12 | 13 | 34 | 4 |
| | | Lead, Pb | mg/kg | 1 | 87 | 93 | 31 | 7 |
| | | Nickel, Ni | mg/kg | 0.5 | 4.1 | 4.0 | 42 | 1 |
| | | Zinc, Zn | mg/kg | 0.5 | 89 | 90 | 32 | 1 |
| SE146852.029 | LB091458.014 | Arsenic, As | mg/kg | 3 | 9 | 8 | 42 | 14 |
| | | Cadmium, Cd | mg/kg | 0.3 | 1.0 | 0.9 | 62 | 7 |
| | | Chromium, Cr | mg/kg | 0.3 | 18 | 19 | 33 | 7 |
| | | Copper, Cu | mg/kg | 0.5 | 47 | 36 | 31 | 28 |
| | | Lead, Pb | mg/kg | 1 | 210 | 170 | 31 | 20 |
| | | Nickel, Ni | mg/kg | 0.5 | 9.8 | 7.5 | 36 | 27 |
| | | Zinc, Zn | mg/kg | 0.5 | 220 | 200 | 31 | 10 |
| SE146859.008 | LB091458.024 | Arsenic, As | mg/kg | 3 | <3 | <3 | 85 | 6 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.3 | 8.0 | 6.8 | 37 | 17 |
| | | Copper, Cu | mg/kg | 0.5 | 8.4 | 7.9 | 36 | 6 |
| | | Lead, Pb | mg/kg | 1 | 25 | 31 | 34 | 21 |
| | | Nickel, Ni | mg/kg | 0.5 | 2.9 | 2.5 | 48 | 17 |
| | | Zinc, Zn | mg/kg | 0.5 | 27 | 78 | 34 | 98 ② |
| | | | | | | | | |

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-------------|---------------------------------|-------|-----|----------|-----------|------------|-------|
| SE146852.017 | LB091353.026 | | TRH C10-C14 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | <45 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | <100 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | 200 | 0 |
| | | | TRH C10-C40 Total | mg/kg | 210 | <210 | <210 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 (F2) | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C10-C16 (F2) - Naphthalene | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | 200 | 0 |

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % | |
|--------------|--------------|------------|-----------------------------------|-------|-----|----------|-----------|------------|-------------------------------|--|
| SE146855.001 | LB091359.014 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 | |
| | | | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 | |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 | |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 | |
| | | Polycyclic | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 | |
| | | Surrogates | Dibromofluoromethane (Surrogate) | mg/kg | - | 3.7 | 3.6 | 50 | 4 | |
| | | | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 4.3 | 4.1 | 50 | 4 | |
| | | | d8-toluene (Surrogate) | mg/kg | - | 4.3 | 3.9 | 50 | 9 | |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 3.9 | 3.6 | 50 | 6 | |
| | | Totals | Total Xylenes* | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 | |
| | | | Total BTEX* | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 | |

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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-------------|-----------------------------------|-------|-----|----------|-----------|------------|-----------------------|
| SE146855.001 | LB091359.014 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 0 0 4 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 4.3 | 4.1 | 30 | 4 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |

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LABORATORY CONTROL SAMPLES

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria.

| Mercury in Soil | Method: ME_(ALI)_IENV/IAN312 |
|-----------------|------------------------------|

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-----------|-------|------|--------|----------|------------|------------|
| LB091568.002 | Mercury | mg/kg | 0.01 | 0.18 | 0.2 | 70 - 130 | 88 |
| LB091641.002 | Mercury | mg/kg | 0.01 | 0.19 | 0.2 | 70 - 130 | 97 |

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-----------|---|-------|-----|--------|----------|------------|---|
| LB091353.002 | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 100 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 100 |
| | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 40 100 40 95 40 95 40 105 40 85 |
| | | Dieldrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 95 |
| | | Endrin | mg/kg | 0.2 | 0.2 | 0.2 | 60 - 140 | 105 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 85 |
| Sui | urrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.14 | 0.15 | 40 - 130 | 96 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery |
|---------------|------------|------------------------------|-------|-----|--------|----------|--|--|
| .B091355.002 | | Naphthalene | mg/kg | 0.1 | 4.2 | • | | |
| | | Acenaphthylene | mg/kg | 0.1 | 5.1 | | | |
| | | Acenaphthene | mg/kg | 0.1 | 4.4 | | | |
| | | Phenanthrene | | 0.1 | 4.6 | | | |
| | | Anthracene | mg/kg | 0.1 | 4.6 | | | 60 - 140 106 60 - 140 127 60 - 140 110 60 - 140 121 60 - 140 121 60 - 140 122 60 - 140 122 60 - 140 125 40 - 130 96 40 - 130 106 60 - 140 127 60 - 140 127 60 - 140 127 60 - 140 127 60 - 140 127 60 - 140 127 60 - 140 127 60 - 140 121 60 - 140 121 60 - 140 121 60 - 140 121 60 - 140 122 60 - 140 122 60 - 140 125 40 - 130 96 40 - 130 96 40 - 130 84 40 - 130 84 |
| | | | mg/kg | | | | | |
| | | Fluoranthene | mg/kg | 0.1 | 4.8 | | | |
| | | Pyrene | mg/kg | 0.1 | 4.5 | | | |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 5.0 | | | |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | | 0.5 | | | |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 0-140 106 0-140 127 0-140 110 0-140 116 0-140 121 0-140 121 0-140 122 0-140 125 0-130 84 0-130 100 0-140 127 0-140 127 0-140 127 0-140 120 0-140 120 0-140 127 0-140 127 0-140 127 0-140 120 0-140 121 0-140 121 0-140 121 0-140 121 0-140 121 0-140 121 0-140 121 0-140 121 0-140 121 0-140 125 0-130 96 0-130 84 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | |
| LB091355.002 | | Naphthalene | mg/kg | 0.1 | 4.2 | 4 | 4 60 - 140 106 4 60 - 140 127 4 60 - 140 110 4 60 - 140 116 4 60 - 140 121 4 60 - 140 112 4 60 - 140 112 4 60 - 140 125 0.5 40 - 130 96 0.5 40 - 130 84 0.5 40 - 130 100 4 60 - 140 106 4 60 - 140 127 4 60 - 140 110 4 60 - 140 116 4 60 - 140 121 4 60 - 140 121 4 60 - 140 121 4 60 - 140 121 4 60 - 140 125 0.5 40 - 130 96 0.5 40 - 130 96 0.5 40 - 130 84 0.5 40 - 130 84 </td | |
| | | Acenaphthylene | mg/kg | 0.1 | 5.1 | 4 | 60 - 140 | 127 |
| | | Acenaphthene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Phenanthrene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 116 |
| | | Anthracene | mg/kg | 0.1 | 4.9 | 4 | 60 - 140 | 121 |
| | | Fluoranthene | mg/kg | 0.1 | 4.8 | 4 | 60 - 140 | 106 127 110 116 121 121 122 125 96 84 100 106 127 110 116 121 121 122 125 96 84 |
| | | Pyrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| s | | Benzo(a)pyrene | mg/kg | 0.1 | 5.0 | 4 | 60 - 140 | 125 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 96 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 84 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 100 |

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|------------------------------|-------|-----|--------|----------|------------|------------|
| LB091364.002 | Naphthalene | μg/L | 0.1 | 40 | 40 | 60 - 140 | 101 |
| | Acenaphthylene | μg/L | 0.1 | 45 | 40 | 60 - 140 | 113 |
| | Acenaphthene | μg/L | 0.1 | 44 | 40 | 60 - 140 | 110 |
| | Phenanthrene | μg/L | 0.1 | 48 | 40 | 60 - 140 | 120 |
| | Anthracene | μg/L | 0.1 | 49 | 40 | 60 - 140 | 124 |
| | Fluoranthene | μg/L | 0.1 | 51 | 40 | 60 - 140 | 128 |
| | Pyrene | μg/L | 0.1 | 48 | 40 | 60 - 140 | 121 |
| | Benzo(a)pyrene | μg/L | 0.1 | 50 | 40 | 60 - 140 | 124 |
| Surrogates | d5-nitrobenzene (Surrogate) | μg/L | - | 0.5 | 0.5 | 40 - 130 | 92 |
| | 2-fluorobiphenyl (Surrogate) | μg/L | - | 0.5 | 0.5 | 40 - 130 | 92 |
| | d14-p-terphenyl (Surrogate) | μg/L | - | 0.6 | 0.5 | 40 - 130 | 128 |

Total Recoverable Metals in Soil by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|-------|-----|--------|----------|------------|------------|
| LB091457.002 | Arsenic, As | mg/kg | 3 | 53 | 50 | 80 - 120 | 106 |
| | Cadmium, Cd | mg/kg | 0.3 | 56 | 50 | 80 - 120 | 111 |
| | Chromium, Cr | mg/kg | 0.3 | 53 | 50 | 80 - 120 | 107 |
| | Copper, Cu | mg/kg | 0.5 | 53 | 50 | 80 - 120 | 106 |
| | Lead, Pb | mg/kg | 1 | 54 | 50 | 80 - 120 | 108 |
| | Nickel, Ni | mg/kg | 0.5 | 54 | 50 | 80 - 120 | 108 |
| | Zinc, Zn | mg/kg | 0.5 | 54 | 50 | 80 - 120 | 109 |
| LB091458.002 | Arsenic, As | mg/kg | 3 | 52 | 50 | 80 - 120 | 105 |

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LABORATORY CONTROL SAMPLES

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in Green when within suggested criteria or Red with an appended dagger symbol (†) when outside suggested criteria.

| Tot | tal F | Recovera | ble N | /letal | s i | n S | oil I | by I | С | PO | ES | (cont | inued |) |
|-----|-------|----------|-------|--------|-----|-----|-------|------|---|----|----|-------|-------|---|
|-----|-------|----------|-------|--------|-----|-----|-------|------|---|----|----|-------|-------|---|

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|---|-------|-----|--------|----------|------------|------------|
| LB091458.002 | Cadmium, Cd | m | ng/kg | 0.3 | 55 | 50 | 80 - 120 | 110 |
| | Chromium, Cr | m | ng/kg | 0.3 | 53 | 50 | 80 - 120 | 105 |
| | Copper, Cu | m | ng/kg | 0.5 | 52 | 50 | 80 - 120 | 104 |
| | Lead, Pb | m | ng/kg | 1 | 53 | 50 | 80 - 120 | 106 |
| | Nickel, Ni | m | ng/kg | 0.5 | 53 | 50 | 80 - 120 | 107 |
| | Zinc, Zn | m | ng/kg | 0.5 | 53 | 50 | 80 - 120 | 107 |

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|-------|-----|--------|----------|------------|------------|
| LB091351.002 | Arsenic, As | μg/L | 1 | 21 | 20 | 80 - 120 | 103 |
| | Cadmium, Cd | μg/L | 0.1 | 21 | 20 | 80 - 120 | 104 |
| | Chromium, Cr | μg/L | 1 | 22 | 20 | 80 - 120 | 108 |
| | Copper, Cu | μg/L | 1 | 21 | 20 | 80 - 120 | 107 |
| | Lead, Pb | μg/L | 1 | 22 | 20 | 80 - 120 | 110 |
| | Nickel, Ni | μg/L | 1 | 21 | 20 | 80 - 120 | 107 |
| | Zinc, Zn | μg/L | 5 | 21 | 20 | 80 - 120 | 104 |

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-------------|-------------------|-------|-----|--------|----------|------------|------------|
| LB091353.002 | | TRH C10-C14 | mg/kg | 20 | 43 | 40 | 60 - 140 | 108 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 100 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 75 |
| | TRH F Bands | TRH >C10-C16 (F2) | mg/kg | 25 | 41 | 40 | 60 - 140 | 103 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 88 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 75 |

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|------------------|-----------------------------------|-------|-----|--------|----------|------------|------------|
| LB091359.002 | Monocyclic | Benzene | mg/kg | 0.1 | 2.4 | 2.9 | 60 - 140 | 83 |
| | Aromatic Toluene | | mg/kg | 0.1 | 2.4 | 2.9 | 60 - 140 | 82 |
| | | Ethylbenzene | mg/kg | 0.1 | 2.5 | 2.9 | 60 - 140 | 86 |
| | | m/p-xylene | mg/kg | 0.2 | 4.7 | 5.8 | 60 - 140 | 82 |
| | | o-xylene | mg/kg | 0.1 | 2.3 | 2.9 | 60 - 140 | 79 |
| | Surrogates | Dibromofluoromethane (Surrogate) | mg/kg | - | 4.2 | 5 | 60 - 140 | 85 |
| | | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 4.7 | 5 | 60 - 140 | 93 |
| | | d8-toluene (Surrogate) | mg/kg | - | 4.8 | 5 | 60 - 140 | 96 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 4.1 | 5 | 60 - 140 | 82 |

VOCs in Water

Method: ME-(AU)-[ENV]AN433/AN434

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|-----------------------------------|-------|-----|--------|----------|------------|------------|
| LB091562.002 | Monocyclic | Benzene | μg/L | 0.5 | 52 | 45.45 | 60 - 140 | 114 |
| | Aromatic | Toluene | μg/L | 0.5 | 52 | 45.45 | 60 - 140 | 114 |
| | Ethylbenzene | | μg/L | 0.5 | 52 | 45.45 | 60 - 140 | 114 |
| | | m/p-xylene | μg/L | 1 | 100 | 90.9 | 60 - 140 | 114 |
| | | o-xylene | μg/L | 0.5 | 52 | 45.45 | 60 - 140 | 114 |
| | Surrogates | Dibromofluoromethane (Surrogate) | μg/L | - | 4.8 | 5 | 60 - 140 | 95 |
| | | d4-1,2-dichloroethane (Surrogate) | μg/L | - | 4.8 | 5 | 60 - 140 | 97 |
| | | d8-toluene (Surrogate) | μg/L | - | 5.0 | 5 | 60 - 140 | 100 |
| | | Bromofluorobenzene (Surrogate) | μg/L | - | 4.7 | 5 | 60 - 140 | 94 |

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-------------|-----------------------------------|-------|-----|--------|----------|------------|------------|
| LB091359.002 | | TRH C6-C10 | mg/kg | 25 | <25 | 24.65 | 60 - 140 | 89 |
| | | TRH C6-C9 | mg/kg | 20 | <20 | 23.2 | 60 - 140 | 72 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 4.7 | 5 | 60 - 140 | 93 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | 7.25 | 60 - 140 | 105 |

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Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311/AN312

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------|-------|--------|--------|----------|-------|-----------|
| SE146838.021 | LB091595.004 | Mercury | mg/L | 0.0001 | 0.0076 | <0.0001 | 0.008 | 95 |

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------|-------|------|--------|----------|-------|-----------|
| SE146852.001 | LB091568.004 | Mercury | mg/kg | 0.01 | 0.46 | 0.27 | 0.2 | 93 |
| SE146852.022 | LB091641.004 | Mercury | mg/kg | 0.01 | 0.30 | 0.07 | 0.2 | 111 |

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recover |
|-------------|---------------|------------|---|---------------------------------------|-----|--------|----------|-------|---------|
| E146852.010 | LB091353.029 | | Naphthalene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 116 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 114 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 108 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.4 | <0.1 | 4 | 110 |
| | | | Anthracene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 119 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.9 | <0.1 | 4 | 122 |
| | | | Pyrene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 112 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 104 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | |
| | | | Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td>4.2</td><td><0.2</td><td>_</td><td>_</td></lor=0*<> | TEQ | 0.2 | 4.2 | <0.2 | _ | _ |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>4.3</td><td><0.3</td><td>_</td><td></td></lor=lor*<> | TEQ (mg/kg) | 0.3 | 4.3 | <0.3 | _ | |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>4.2</td><td><0.2</td><td></td><td></td></lor=lor> | TEQ (mg/kg) | 0.2 | 4.2 | <0.2 | | |
| | | | Total PAH (18) | mg/kg | 0.8 | 36 | <0.8 | | |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | | 100 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | | 0.5 | 0.5 | | 92 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | | 0.5 | 0.5 | | 92 |
| 146852.032 | LB091355.022 | | Naphthalene | mg/kg | 0.1 | 5.0 | <0.1 | 4 | 123 |
| . 10002.002 | 2500 1000.022 | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | | - 120 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | | |
| | | | Acenaphthylene | mg/kg | 0.1 | 5.1 | 0.1 | 4 | 125 |
| | | | Acenaphthene | mg/kg | 0.1 | 5.1 | <0.1 | 4 | 126 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - 120 |
| | | | Phenanthrene | mg/kg | 0.1 | 5.2 | 0.3 | 4 | 124 |
| | | | Anthracene | · · · · · · · · · · · · · · · · · · · | 0.1 | 4.9 | <0.1 | 4 | 122 |
| | | | Fluoranthene | mg/kg | 0.1 | 7.1 | 1.4 | 4 | 141 (|
| | | | Pyrene | mg/kg | 0.1 | 6.1 | 1.3 | 4 | 120 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 1.3 | 1.0 | - | 120 |
| | | | | mg/kg | | | | | |
| | | | Chrysene | mg/kg | 0.1 | 1.1 | 0.9 | | |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | | 1.2 | | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.9 | 0.8 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 8.4 | 1.4 | 4 | 173 (|
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 1.4 | 1.1 | - | - |
| | | | Dibenzo(a&h)anthracene | mg/kg | 0.1 | 0.2 | 0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 1.0 | 0.8 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <lor=0*< td=""><td>TEQ</td><td>0.2</td><td>9.1</td><td>2.0</td><td>-</td><td>-</td></lor=0*<> | TEQ | 0.2 | 9.1 | 2.0 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor*< td=""><td>TEQ (mg/kg)</td><td>0.3</td><td>9.1</td><td>2.0</td><td>-</td><td>-</td></lor=lor*<> | TEQ (mg/kg) | 0.3 | 9.1 | 2.0 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <lor=lor 2*<="" td=""><td>TEQ (mg/kg)</td><td>0.2</td><td>9.1</td><td>2.0</td><td>-</td><td>-</td></lor=lor> | TEQ (mg/kg) | 0.2 | 9.1 | 2.0 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 54 | 10 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 106 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 90 |

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MATRIX SPIKE DUPLICATES

SE146852 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in Green when within suggested criteria or Red with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

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SE146852 R0

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: http://www.sgs.com.au/~/media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf

- * NATA accreditation does not cover tthe performance of this service .
- Sample not analysed for this analyte.

IS Insufficient sample for analysis. LNR Sample listed, but not received.

LOR Limit of reporting.

QFH QC result is above the upper tolerance.
QFL QC result is below the lower tolerance.

- ① At least 2 of 3 surrogates are within acceptance criteria.
- 2 RPD failed acceptance criteria due to sample heterogeneity.
- 3 Results less than 5 times LOR preclude acceptance criteria for RPD.
- Recovery failed acceptance criteria due to matrix interference.
- ® Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- © LOR was raised due to sample matrix interference.
- ① LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ® Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- Recovery failed acceptance criteria due to sample heterogeneity.
- © LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to Analytical Report comments for further information.

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service, available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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This test report shall not be reproduced, except in full.

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SAMPLE RECEIPT ADVICE

CLIENT DETAILS

Client

Telephone

Facsimile

LABORATORY DETAILS

Craig Cowper Contact

SLR CONSULTING AUSTRALIA PTY LTD

Address Lego Building, 2 Lincoln Street

(PO Box 176 NSW LANECOVE 1595)

LANECOVE NSW 2066

02 9427 8100

02 9427 8200 ccowper@slrconsulting.com Email

610.14433.00300 Linfield Project

SGS PO 20112 Order Number

35 Samples

Huong Crawford Manager

SGS Alexandria Environmental Laboratory Address

Unit 16, 33 Maddox St Alexandria NSW 2015

COC

Yes

Yes

Yes

6.9°C

Standard

+61 2 8594 0400

Telephone +61 2 8594 0499 Facsimile

au.environmental.sydney@sgs.com **Email**

Samples Received Mon 7/12/2015

Report Due Mon 14/12/2015

SF146852 SGS Reference

SUBMISSION DETAILS

This is to confirm that 35 samples were received on Monday 7/12/2015. Results are expected to be ready by Monday 14/12/2015. Please quote SGS reference SE146852 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix Date documentation received Samples received without headspace Sample container provider Samples received in correct containers

Sample cooling method

Complete documentation received

32 Soil, 3 Water 7/12/2015 Yes SGS Yes Ice Bricks Yes

Type of documentation received Samples received in good order Sample temperature upon receipt Turnaround time requested Sufficient sample for analysis Samples clearly labelled

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS -

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS , all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx as at the date of this document.

Attention is drawn to the limitations of liability and to the clauses of indemnification.

SGS Australia Pty Ltd ABN 44 000 964 278

Environmental Services

Unit 16 33 Maddox St PO Box 6432 Bourke Rd BC

Alexandria NSW 2015 Alexandria NSW 2015 Australia Australia

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SAMPLE RECEIPT ADVICE

CLIENT DETAILS _

Client SLR CONSULTING AUSTRALIA PTY LTD

Project 610.14433.00300 Linfield

- SUMMARY OF ANALYSIS -

| No. | Sample ID | Mercury in Soil | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | Total Recoverable Metals in Soil by ICPOES | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|-----|---------------|-----------------|-----------------------|--|--|---|---------------|--|
| 001 | TP01/0.0-0.2 | 1 | 28 | 25 | 7 | - | - | - |
| 002 | TP01/0.3-0.5 | 1 | - | - | 7 | - | - | - |
| 003 | TP02/0.0-0.2 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 004 | TP02/0.3-0.5 | - | - | 25 | - | - | - | - |
| 005 | TP03/0.0-0.2 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 006 | TP03/0.3-0.5 | 1 | - | - | 7 | - | - | - |
| 007 | TP04/0.0-0.2 | 1 | 28 | - | 7 | - | - | - |
| 008 | TP04/0.3-0.5 | 1 | - | - | 7 | - | - | - |
| 009 | TP05/0.0-0.2 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 010 | TP05/0.4/0.6 | 1 | - | 25 | 7 | - | - | - |
| 011 | TP06/0.0-0.2 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 012 | TP06/0.5-0.7 | - | - | 25 | - | - | - | - |
| 013 | TP06/1.1-1.3 | 1 | - | 25 | 7 | - | - | - |
| 014 | TP07/0.0-0.2 | 1 | 28 | - | 7 | - | - | - |
| 015 | TP07/0.7-0.9 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 016 | TP07/0.9-1.1 | 1 | - | 25 | 7 | - | - | - |
| 017 | HA01/0.0-0.2 | 1 | 28 | 25 | 7 | 10 | 12 | 8 |
| 018 | HA01/0.3-0.5 | 1 | - | - | 7 | - | - | - |
| 019 | HA02/0.0-0.2 | 1 | - | - | 7 | - | - | - |
| 020 | HA02/0.2-0.4 | 1 | - | 25 | 7 | - | - | - |
| 021 | HA03/0.05-0.2 | 1 | - | - | 7 | - | - | - |
| 022 | HA03/0.4-0.6 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 023 | HA03/0.7-0.9 | 1 | - | 25 | 7 | - | - | - |
| 024 | HA04/0.05-0.2 | 1 | - | - | 7 | - | - | - |

_ CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

8/12/2015 Page 2 of 5

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details

Testing as per this table shall commence immediately unless the client intervenes with a correction .



SAMPLE RECEIPT ADVICE

CLIENT DETAILS _

Client SLR CONSULTING AUSTRALIA PTY LTD

Project 610.14433.00300 Linfield

- SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury in Soil | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | Total Recoverable Metals in Soil by ICPOES | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|-----|----------------|-----------------|-----------------------|--|--|---|---------------|--|
| 025 | HA04/0.2-0.4 | 1 | | 25 | 7 | 10 | 12 | 8 |
| | 11/404/0.2-0.4 | ' | | 20 | , | 10 | 12 | |
| 026 | HA05/0.05-0.2 | 1 | - | - | 7 | - | - | - |
| 027 | HA05/0.2-0.4 | 1 | - | - | 7 | - | - | - |
| 028 | HA06/0.0-0.2 | 1 | 28 | - | 7 | - | - | - |
| 029 | HA06/0.5-0.7 | 1 | - | 25 | 7 | 10 | 12 | 8 |
| 030 | HA06/0.9-1.1 | - | - | 25 | - | - | - | - |
| 031 | DUP01 | 1 | - | - | 7 | - | - | - |
| 032 | DUP02 | - | - | 25 | - | - | - | - |

_ CONTINUED OVERLEAF

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The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details

Testing as per this table shall commence immediately unless the client intervenes with a correction .



SAMPLE RECEIPT ADVICE

CLIENT DETAILS _

Client SLR CONSULTING AUSTRALIA PTY LTD

Project 610.14433.00300 Linfield

- SUMMARY OF ANALYSIS -

| No. Sample ID 1 | | | | |
|--|-----|---------------|------------------------------|------------------|
| 002 TP01/0.3-0.5 - 1 003 TP02/0.0-0.2 1 1 004 TP02/0.3-0.5 - 1 005 TP03/0.0-0.2 1 1 006 TP03/0.3-0.5 - 1 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.4-0.6 - 1 022 | No. | Sample ID | Fibre Identification in soil | Moisture Content |
| 003 TP02/0.0-0.2 1 1 004 TP02/0.3-0.5 - 1 005 TP03/0.0-0.2 1 1 006 TP03/0.3-0.5 - 1 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 | 001 | TP01/0.0-0.2 | 1 | 1 |
| 004 TP02/0.3-0.5 - 1 005 TP03/0.0-0.2 1 1 006 TP03/0.3-0.5 - 1 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 002 | TP01/0.3-0.5 | - | 1 |
| 005 TP03/0.0-0.2 1 1 006 TP03/0.3-0.5 - 1 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 003 | TP02/0.0-0.2 | 1 | 1 |
| 006 TP03/0.3-0.5 - 1 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 004 | TP02/0.3-0.5 | - | 1 |
| 007 TP04/0.0-0.2 1 1 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 005 | TP03/0.0-0.2 | 1 | 1 |
| 008 TP04/0.3-0.5 - 1 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 006 | TP03/0.3-0.5 | - | 1 |
| 009 TP05/0.0-0.2 1 1 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 007 | TP04/0.0-0.2 | 1 | 1 |
| 010 TP05/0.4/0.6 - 1 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 008 | TP04/0.3-0.5 | - | 1 |
| 011 TP06/0.0-0.2 1 1 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 009 | TP05/0.0-0.2 | 1 | 1 |
| 012 TP06/0.5-0.7 - 1 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 010 | TP05/0.4/0.6 | - | 1 |
| 013 TP06/1.1-1.3 - 1 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 011 | TP06/0.0-0.2 | 1 | 1 |
| 014 TP07/0.0-0.2 1 1 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 012 | TP06/0.5-0.7 | - | 1 |
| 015 TP07/0.7-0.9 - 1 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 013 | TP06/1.1-1.3 | - | 1 |
| 016 TP07/0.9-1.1 - 1 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 014 | TP07/0.0-0.2 | 1 | 1 |
| 017 HA01/0.0-0.2 - 1 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 015 | TP07/0.7-0.9 | - | 1 |
| 018 HA01/0.3-0.5 1 1 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 016 | TP07/0.9-1.1 | - | 1 |
| 019 HA02/0.0-0.2 1 1 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 017 | HA01/0.0-0.2 | - | 1 |
| 020 HA02/0.2-0.4 - 1 021 HA03/0.05-0.2 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 018 | HA01/0.3-0.5 | 1 | 1 |
| 021 HA03/0.05-0.2 1 1 1 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 019 | HA02/0.0-0.2 | 1 | 1 |
| 022 HA03/0.4-0.6 - 1 023 HA03/0.7-0.9 - 1 | 020 | HA02/0.2-0.4 | - | 1 |
| 023 HA03/0.7-0.9 - 1 | 021 | HA03/0.05-0.2 | 1 | 1 |
| | 022 | HA03/0.4-0.6 | - | 1 |
| 024 HA04/0.05-0.2 1 1 | 023 | HA03/0.7-0.9 | - | 1 |
| | 024 | HA04/0.05-0.2 | 1 | 1 |

_ CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

8/12/2015 Page 4 of 5

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details

Testing as per this table shall commence immediately unless the client intervenes with a correction .





SAMPLE RECEIPT ADVICE

CLIENT DETAILS _

Client SLR CONSULTING AUSTRALIA PTY LTD

Project 610.14433.00300 Linfield

- SUMMARY OF ANALYSIS

| No. | Sample ID | Fibre Identification in soil | Mercury (dissolved) in Water | Moisture Content | PAH (Polynuclear Aromatic Hydrocarbons) in Water | Trace Metals (Dissolved) in Water by ICPMS | VOCs in Water |
|-----|---------------|------------------------------|---------------------------------|------------------|---|---|---------------|
| 025 | HA04/0.2-0.4 | - | - | 1 | - | - | - |
| 026 | HA05/0.05-0.2 | - | - | 1 | - | - | - |
| 027 | HA05/0.2-0.4 | 1 | - | 1 | - | - | - |
| 028 | HA06/0.0-0.2 | 1 | - | 1 | - | - | - |
| 029 | HA06/0.5-0.7 | - | - | 1 | - | - | - |
| 030 | HA06/0.9-1.1 | - | - | 1 | - | - | - |
| 031 | DUP01 | - | - | 1 | - | - | - |
| 032 | DUP02 | - | - | 1 | - | - | - |
| 033 | Trip Spike | - | - | - | - | - | 12 |
| 034 | Trip Blank | - | - | - | - | - | 12 |
| 035 | RB01 | - | 1 | - | 21 | 7 | - |

8/12/2015 Page 5 of 5

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details

Testing as per this table shall commence immediately unless the client intervenes with a correction .

| SGS | | | | С | HA | IN C |)F C | UST | ΓOD | Y & A | NAI | LYS | IS F | REQ | UES | Т | | | | | Page1 of4 |
|----------------------------|-----------------|---------------------|--------|--|--------------|------------------|-----------------------------|---|--------------|--|---------|-------|----------------|------------|--------------------------------|------------|--------|-------------|----------|----------------------------|------------------------------|
| SGS Environmental S | ervices | Company | / Nam | e: _ | SLR (| Consu | lting | | | | | | Proje | ect Nan | ne/No: | | 610.1 | 4433. | 00300 | Lindf | ield |
| Unit 16, 33 Maddox St | reet | Address: | | _ | 2 Lind | coln St | reet | | | | | | Purc | hase C | rder No |) : | SGS | PO 20 | 112 | Euro | ofins PO 20113 |
| Alexandria NSW 2015 | | | | _ | Lane | Cove | NSW 2 | 066 | | | | | Resi | ılts Red | quired E | Ву: | Stand | dard T | urnaro | und | |
| Telephone No: (02) 85 | 940400 | | | | | | | | | | | | Tele | ohone: | | | 0400 | 882 2 | 69 | | |
| Facsimile No: (02) 85 | 940499 | Contact I | Name: | | Craig | Cowp | er | | | | | | Facs | imile: | | 3 | 02 94 | 27 82 | 00 | | |
| Email: au.samplereceipt.sy | dney@sgs.com | | | | | | | | | | | | Ema | il Resu | lts: | 33 | ccow | per@s | Ircons | ulting | i.com |
| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL10 TRH/BTEX/PAH/Metals | CL16 TRH / BTEX / PAH/Metals / Phenols | CL5 TRH/BTEX | CL5 TRH/BTEX/PAH/VOC CL2 8 metals | РАН | OCP | Phenol (total) | VOC (8260) | Asbestos (Absence/Presence) | втех | | B1 TRH/BTEX | 8 metals | РАН | Notes |
| TP01/0.0-0.2 | 06/12/15 | ì | | Х | Ice | 2 | | | | Х | X | Х | - | | Χ | | | | | | |
| TP01/0.3-0.5 | 06/12/15 | 2 | | Х | Ice | 2 | | | | X | | 1 | | | | | | | | | |
| TP02/0.0-0.2 | | 3 | | Х | Ice | 2 | Х | | | | | | | | Х | | | | | | 4 |
| TP02/0.3-0.5 | 06/12/15 | /i | | X | Ice | 2 | | | | | Х | | _ | | | | - | | | | |
| TP03/0.0-0.2 | 06/12/15 | + | | Х | Ice | 2 | X- | | | | | | | | Х | | | | | | |
| TP03/0.3-0.5 | 06/12/15 | C | | Х | Ice | 2 | | | | Х | | | | | | | | | | + | SGS Alexandria Environmental |
| TP04/0.0-0.2 | 06/12/15 | 4 | | Х | Ice | 2 | | | | Х | | Х | | | Х | | | | | | |
| TP04/0.3-0.5 | 06/12/15 | 8 | | X | Ice | 2 | | | | Х | | | | | | | | | | | |
| TP05/0.0-0.2 | 06/12/15 | 9 | | X | Ice | 2 | X, | | | | | | | | Х | | | | | | |
| TP05/0.4-0.6 | 06/12/15 | N | | Х | Ice | 2 | | | | X | Х | | | | | | | | | | SE146852 COC |
| Relinquished By: Craig Co | owper (| Date | e/Time | : 7 De | ecemb | er @ | 9:30AI | M | | Rec | eived E | Ву: | | | | - | 1 [| Date/T | ime | - | Received: 07 – Dec – 2015 |
| Relinquished By: | | Date | e/Time |): | | | ~ | | | Rece | eived E | Ву: С | juli | 15-0 | WK | M | 1 | Date/T | ime | 71 | 2/18 1: KPM |
| Samples Intact: Yes No | | Tem | perati | ıre: | Ambie | ent //C | hilled | | | and the same of th | ple Co | | | / | | | | abora | atory (| Quota | tion No: SLR Pricing 2015 |
| | | Com | nment | erature: Ambient Chilled nents: Methods and detection limits to si | | | | | uit NEPM | 2013 | | | | | | L | _ab Qı | uotatio | on No | e: Eurofins Version 13.CS2 | |

| SGS | | | | | СНА | IN C | OF C | US" | ΤΟΙ | DY & | ΑN | NAL | YS | IS R | EQ | UES | ST. | | | | | Page2 | 2 of4 |
|----------------------------|-----------------|---------------------|--------|--------|--------------|------------------|-----------------------------|---|--------------|--|--------------|-------|-------|----------------|------------|--------------------------------|------|-------|-------------|----------|--------|-------------|----------------|
| SGS Environmental S | | Compa | ny Nam | ne: | SLR | Consu | Ilting | | | | | | | Proje | ct Nan | ne/No: | | 610.1 | 4433. | 00300 | Lindfi | ield | |
| Unit 16, 33 Maddox S | | Address | 3: | | 2 Lin | coln S | treet | | | | | | | Purch | nase C | rder N | o: | SGS | PO 20 | 0112 | Euro | fins PO 201 | 13 |
| Alexandria NSW 2015 | | | | | Lane | Cove | NSW 2 | 2066 | | | | | | Resu | Its Red | quired | Ву: | Stand | dard T | urnaro | und | | |
| Telephone No: (02) 85 | | | | | | | | | | | | | | Telep | hone: | | | 0400 | 882 2 | 69 | | | |
| Facsimile No: (02) 8 | 5940499 | Contact | Name | | Craig | Cowp | er | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | Facsi | mile: | | | 02 94 | 27 82 | 00 | | | |
| Email: au.samplereceipt.sy | dney@sgs.com | 1 | | | | | | 1211. | | | | | | Email | Resu | Its: | | ccow | per@s | sircons | ultina | .com | - |
| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL10 TRH/BTEX/PAH/Metals | CL16 TRH / BTEX / PAH/Metals / Phenols | CL5 TRH/BTEX | CL5 TRH/BTEX/PAH/VOC | CL2 8 metals | РАН | OCP | Phenol (total) | VOC (8260) | Asbestos (Absence/Presence) | ВТЕХ | | B1 TRH/BTEX | 8 metals | РАН | | Notes |
| TP06/0.0-0.2 | 06/12/15 | i/ | | Х | Ice | 2 | Х | | | | | | | | | X | | | | | | | |
| TP06/0.5-0.7 | 06/12/15 | 12 | | Х | Ice | 2 | | | | | | Х | | | | | | | | | | | |
| TP06/1.1-1.3 | 06/12/15 | 13 | | Х | Ice | 2 | | | |) | X | Х | | | | | | | | | | | |
| TP07/0.0-0.2 | 06/12/15 | 14 | | Х | Ice | 2 | | | |) | X | | Х | | | Х | | | | | | | |
| TP07/0.7-0.9 | 06/12/15 | 15 | | Х | Ice | 2 | Х | | | | | | | | | | | | | | | | |
| TP07/0.9-1.1 | 06/12/15 | 10. | | Х | Ice | 2 | | | |) | X | Х | | | | | | | | | | | |
| HA01/0.0-0.2 | 06/12/15 | 13 | | X | Ice | 2 | х | | | | | | Χ | | | | | | | | | | |
| HA01/0.3-0.5 | 06/12/15 | 10 | | X | Ice | 2 | | | |) | Κ | | | | | Х | | | | | | | |
| HA02/0.0-0.2 | 06/12/15 | 19 | | Х | Ice | 2 | | | | X | < | | | | | Х | | | | | | | |
| HA02/0.2-0.4 | 06/12/15 | 20 | | Х | Ice | 2 | | | | × | (| Х | | | | | | | | | | | |
| Relinquished By: Craig Co | owper / | Da | e/Time | e: 7 D | ecemb | er @ | 9:30AI | M | | Re | ceiv | ed By | : | | | | | | ate/T | ime | | | |
| Relinquished By: | 4 | Dat | e/Time | e: | | | | | | Red | ceiv | ed By | 7117 | LAIA | CA | MA | M | 3 0 | ate/T | ime | 7 | 12/15 | MINION |
| Samples Intact Yes/No | | Ter | nperat | ure: | Ambie | ent //C | hilled | | | Sar | mple | e Coo | er Se | aled: | Yes | No | | L | | | 1 1 | 10110 | R Pricing 2015 |
| | | Cor | mment | s: Me | thods | and d | etectio | n limits | s to s | uit NEPN | M 20 | 13 | | |) | | | | | | | | ersion 13.CS2 |

| SGS | | | | C | HA | IN C | OF C | UST | ОЕ | OY & A | NAI | _YS | IS R | REQ | UES | T | | | | | Page3 of4 |
|----------------------------|-----------------|---------------------|--------|--------|--------------|------------------|-----------------------------|---|--------------|---|--------|--------|----------------|------------|--------------------------------|-------|-------|-------------|----------|----------|--|
| SGS Environmental S | | Compar | ny Nam | ne: | SLR | Consu | Ilting | | | | | | Proje | ct Nar | ne/No: | | 610.1 | 14433. | .00300 |) Lindfi | ield |
| Unit 16, 33 Maddox S | | Address | : | | 2 Line | coln S | treet | | | | | | Purcl | hase C | rder N | o: | SGS | PO 20 | 0112 | Euro | fins PO 20113 |
| Alexandria NSW 2015 | | | | | Lane | Cove | NSW 2 | 2066 | | | | | Resu | ılts Re | quired | Ву: | Stand | dard T | urnard | ound | |
| Telephone No: (02) 85 | | | | | | | | | | | | | Telep | hone: | | | 0400 | 882 2 | 269 | | |
| Facsimile No: (02) 8 | | Contact | Name | | Craig | Cowp | er | | | | | | Facs | imile: | | | 02 94 | 127 82 | 200 | | The state of the s |
| Email: au.samplereceipt.sy | dney@sgs.con | n | | | | | | | | | | | Emai | l Resu | lts: | | ccow | per@s | sircons | sulting. | .com |
| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL10 TRH/BTEX/PAH/Metals | CL16 TRH / BTEX / PAH/Metals / Phenols | CL5 TRH/BTEX | CL5 TRH/BTEX/PAH/VOC CL2 8 metals | PAH | OCP | Phenol (total) | VOC (8260) | Asbestos (Absence/Presence) | втех | | B1 TRH/BTEX | 8 metals | РАН | Notes |
| HA03/0.05-0.2 | 06/12/15 | 21 | | 2 | 2 | 2 | | | | Х | 1 | | 1 | | Х | | | | | | |
| HA03/0.4-0.6 | 06/12/15 | 22 | | Х | Ice | 2 | Х | | | | 1 | | 1 | | | | | | | | |
| HA03/0.7-0.9 | 06/12/15 | 23 | | Х | lce | 2 | | | | Х | Х | | | | | | | | | | |
| HA04/0.05-0.2 | 06/12/15 | 24 | | Х | Ice | 2 | | | | Х | | | | | Х | | | | | | |
| HA04/0.2-0.4 | 06/12/15 | 25 | | X | Ice | 2 | Х | | | | | | | | | | | | | | |
| HA05/0.05-0.2 | 06/12/15 | 26 | | X | Ice | 2 | | | | Х | | | | | | | | | | | |
| HA05/0.2-0.4 | 06/12/15 | 17 | | Χ | Ice | 2 | | | | Х | | | 1 | | Х | | | | | | |
| HA06/0.0-0.2 | 06/12/15 | 28 | | Х | Ice | 2 | | | | Х | 1 | X | 1 | | Х | | | | | | |
| HA06/0.5-0.7 | 06/12/15 | 29 | | Х | Ice | 2 | Х | | | | | | | | | | | | | | |
| HA06/0.9-1.1 | 06/12/15 | 250 | | X | Ice | 2 | | | | | X | | | | | | | | | | |
| Relinquished By: Craig Co | owper & | 44 | e/Time | e: 7 D | ecemb | er @ | 9:30AI | VI | | Rece | ived B | y: | | | | | | Date/T | ime | | |
| Relinquished By: | | Dat | e/Time | e: | | | | | | Rece | ived B | y: « | syli | (i.B | MA | M | 7) [| Date/T | ime | 7 | 12/15 1:1000 |
| Samples Intact Yes/ No | · | Ter | nperat | ure: | Ambie | ent/C | hilled | | | Samp | ole Co | oler S | ealed: | Yes/ | No | 1.1-(| | abora | atory C | | ion No: SLR Pricing 2015 |
| | | Cor | nment | s: Me | thods | and d | etection | n limits | to si | uit NEPM 2 | 2013 | | | | | | L | ab Qu | uotatio | n No: | Eurofins Version 13.CS2 |

| SGS | | | | | | | OF C | :US | ΤΟΙ | S YC | & Al | NAL | .YS | IS R | EQ | UES | ST | | | | | Page _4 of4 | |
|----------------------------|-----------------|---------------------|---|--------|--------------|------------------|-----------------------------|---|--------------|-------------------------|--------------|--------|--------|----------------|------------|----------|-------------------------|---------------------------|-------------|----------|---------|---------------------------|-------------------|
| SGS Environmental S | | Compan | y Nam | ne: | SLR | Consu | ılting | | | | | | | Proje | ct Nar | ne/No | : | 610.1 | 14433. | .00300 |) Lind | field | |
| Unit 16, 33 Maddox St | reet | Address | : | | 2 Line | coln S | treet | | | | | | | Purch | nase C | Order N | No: | SGS | PO 20 | 0112 | Eur | ofins PO 20113 | |
| Alexandria NSW 2015 | | | | | Lane | Cove | NSW 2 | 2066 | | | | | | Resu | Its Re | quired | Ву: | Stand | dard T | urnard | ound | | |
| Telephone No: (02) 85 | 940400 | | | | | | | | | | | | | Telep | hone: | | | 0400 | 882 2 | 69 | | | |
| Facsimile No: (02) 85 | 5940499 | Contact | Name | | Craig | Cowp | per | | | | | | | Facsi | mile: | | | 02 94 | 427 82 | 00 | | | |
| Email: au.samplereceipt.sy | dney@sgs.com | | | | | | | | | | | | | Emai | l Resu | Its: | | ccow | per@s | sircons | sulting | g.com | - |
| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL10 TRH/BTEX/PAH/Metals | CL16 TRH / BTEX / PAH/Metals / Phenols | CL5 TRH/BTEX | CL5 TRH/BTEX/PAH/VOC | CL2 8 metals | РАН | OCP | Phenol (total) | VOC (8260) | Asbestos | (Absence/Presence) BTEX | | B1 TRH/BTEX | 8 metals | РАН | Notes | |
| DUP01 | 06/12/15 | 3) | | Х | Ice | 2 | | | | | Х | | | | | | | | | | | | |
| DUP01A | 06/12/15 | ~ / | | Х | Ice | 2 | | | | | | | | | | | | | | Х | | SEND TO EUROFINS M | IGT |
| DUP02 | 06/12/15 | 32 | | Х | Ice | 2 | | | | | | Х | | | | | | | | | | | |
| DUP02A | 06/12/15 | | | Х | Ice | 2 | | | | | | | | | | | | | | | Х | SEND TO EUROFINS M | IGT |
| Trip Spike | 06/12/15 | 33 | х | | Ice | 1 | | | | | | | | | | | X | | | | | | |
| Trip Blank | 06/12/15 | 34 | Х | | Ice | 1 | | | | | | | | | | | Х | | | | | | |
| RB01 | 06/12/15 | 35 | Х | | Ice | 4 | | | | | X | Х | | | | | | | | | | 1 2 | |
| Relinquished By: Craig Co | owper 🎓 | Date | e/Time | e: 7 D | ecemb | er @ | 8:30A | M | | F | Receiv | ved By | /: | | | | | | Date/T | ime | | | |
| Relinquished By: | | Date | e/Time | e: | | | | | | F | Receiv | ved By | i. ha | LIU | 6-1 | A11 | Me | | Date/T | ime | a* | My in | 7/ |
| Samples Intact: Yes No | **** | Tem | nperat | ure: | Ambie | ent //C | hilled |) | | S | Sampl | e Coo | ler Se | ealed: | Yes | No | 0115 | L | | | Quota | tion No: SLR Pricing 2015 | <i>y</i> L |
| | 240 (2780) | Con | emperature: Ambient / Chilled) omments: Methods and detection limits to suit | | | | | | | (| | | | | | | | : Eurofins Version 13.CS2 | | | | | |



SLR Consulting 2 Lincoln St Lane Cove West NSW 2066





Certificate of Analysis

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: Craig Cowper

 Report
 482676-S

 Project name
 LINDFIELD

 Project ID
 610.14433.00300

 Received Date
 Dec 08, 2015

| Client Sample ID | | | DUP01A | DUP02A |
|---------------------------------------|------|-------|--------------|--------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | S15-De08707 | S15-De08708 |
| Date Sampled | | | Dec 06, 2015 | Dec 06, 2015 |
| Test/Reference | LOR | Unit | | |
| Polycyclic Aromatic Hydrocarbons | · | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | 2.2 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 2.5 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 2.7 |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | 1.1 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | 1.7 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | - | 1.6 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | 1.2 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | 1.3 |
| Chrysene | 0.5 | mg/kg | - | 1.3 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | 1.7 |
| Fluorene | 0.5 | mg/kg | - | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | 0.9 |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | 1.8 |
| Total PAH* | 0.5 | mg/kg | - | 13 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 96 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 96 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 93 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | - |
| Chromium | 5 | mg/kg | 16 | - |
| Copper | 5 | mg/kg | 63 | - |
| Lead | 5 | mg/kg | 46 | - |
| Mercury | 0.05 | mg/kg | < 0.05 | - |
| Nickel | 5 | mg/kg | 5.0 | - |
| Zinc | 5 | mg/kg | 77 | - |
| | | | | |
| % Moisture | 0.1 | % | 20 | 14 |



Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|---------------------|
| Polycyclic Aromatic Hydrocarbons | Sydney | Dec 11, 2015 | 14 Day |
| - Method: E007 Polyaromatic Hydrocarbons (PAH) | | | |
| Metals M8 | Sydney | Dec 11, 2015 | 28 Day |
| - Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS | | | |
| % Moisture | Sydney | Dec 09, 2015 | 14 Day |

- Method: LTM-GEN-7080 Moisture



Melbourne

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SLR Consulting (Sydney)

Address: 2 Lincoln St

Company Name:

Lane Cove West

NSW 2066

LINDFIELD **Project Name:** Project ID: 610.14433.00300 Order No.: 20113 Report #: 482676

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Received: Dec 8, 2015 12:18 PM Due: Dec 15, 2015

Priority: 5 Day

Contact Name: Craig Cowper

Eurofins | mgt Client Manager: Andrew Black

| | | Sample Detail | | | Polycyclic Aromatic Hydrocarbons | Metals M8 | Moisture Set |
|-----------------|--------------------|------------------|--------|-------------|----------------------------------|-----------|--------------|
| Laboratory who | ere analysis is co | onducted | | | | | |
| Melbourne Lab | oratory - NATA S | Site # 1254 & 14 | 271 | | | | |
| Sydney Labora | tory - NATA Site | # 18217 | | | Χ | Χ | Х |
| Brisbane Labor | ratory - NATA Si | te # 20794 | | | | | |
| External Labora | atory | | | | | | |
| Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | |
| DUP01A | Dec 06, 2015 | · | Soil | S15-De08707 | | Х | Х |
| DUP02A | Dec 06, 2015 | | Soil | S15-De08708 | Х | | Χ |



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil results are reported on a dry basis, unless otherwise stated.
- 3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 4. Results are uncorrected for matrix spikes or surrogate recoveries
- 5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

**NOTE: pH duplicates are reported as a range NOT as RPD

Units

 mg/kg: milligrams per Kilogram
 mg/l: milligrams per litre

 ug/l: micrograms per litre
 ppm: Parts per million

 ppb: Parts per billion
 %: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

LOR Limit of Reporting.

SPIKE Addition of the analyte to the sample and reported as percentage recovery.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

LCS Laboratory Control Sample - reported as percent recovery
CRM Certified Reference Material - reported as percent recovery

Method Blank In the case of solid samples these are performed on laboratory certified clean sands

In the case of water samples these are performed on de-ionised water. $% \label{eq:case_eq} % \label{eq:case_eq}$

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery.

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

Batch Duplicate A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.

Batch SPIKE Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.

USEPA United States Environmental Protection Agency

APHA American Public Health Association

ASLP Australian Standard Leaching Procedure (AS4439.3)

TCLP Toxicity Characteristic Leaching Procedure

COC Chain of Custody

SRA Sample Receipt Advice

CP Client Parent - QC was performed on samples pertaining to this report

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

TEQ Toxic Equivalency Quotient

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data. Toxophene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported
 in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- $10. \ \ Duplicate \ RPD's \ are \ calculated \ from \ raw \ analytical \ data \ thus \ it \ is \ possible \ to \ have \ two \ sets \ of \ data.$

Quality Control Results

| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|----------------|----------|----------------------|----------------|--------------------|
| Method Blank | | | | • | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Method Blank | | 1 0.0 | 0.0 | 1 400 | |
| Heavy Metals | | | | I | |
| Arsenic | mg/kg | < 2 | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | 5 | Pass | |
| | | < 5 | 5 | Pass | |
| Copper Lead | mg/kg mg/kg | < 5 | 5 | Pass | |
| Mercury | mg/kg | < 0.05 | 0.05 | Pass | |
| Nickel | | < 5 | 5 | Pass | |
| Zinc | mg/kg | < 5 | 5 | Pass | |
| LCS - % Recovery | mg/kg | < 5 | | Fass | |
| Polycyclic Aromatic Hydrocarbons | | T T | | Τ | |
| | % | 88 | 70-130 | Door | |
| Acenaphthene | | | | Pass | |
| Acenaphthylene | % | 98 | 70-130 | Pass | |
| Anthracene | % | 89 | 70-130 | Pass | |
| Benz(a)anthracene | % | 95 | 70-130 | Pass | |
| Benzo(a)pyrene | % | 102 | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 90 | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 100 | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 94 | 70-130 | Pass | |
| Chrysene | % | 97 | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 85 | 70-130 | Pass | |
| Fluoranthene | % | 97 | 70-130 | Pass | |
| Fluorene | % | 87 | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 91 | 70-130 | Pass | |
| Naphthalene | % | 94 | 70-130 | Pass | |
| Phenanthrene | % | 97 | 70-130 | Pass | |
| Pyrene | % | 94 | 70-130 | Pass | |
| LCS - % Recovery | | 1 | | | |
| Heavy Metals | 1 | | | 1 | |
| Arsenic | % | 100 | 70-130 | Pass | |
| Cadmium | % | 104 | 70-130 | Pass | |
| Chromium | % | 102 | 70-130 | Pass | |
| Copper | % | 102 | 70-130 | Pass | |



| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|-------------------|-------------------------|---|---|--|--------------------------|----------------------|--------------------|
| Lead | | | % | 107 | | | 70-130 | Pass | |
| Mercury | | | % | 108 | | | 70-130 | Pass | |
| Nickel | | | % | 103 | | | 70-130 | Pass | |
| Zinc | | | % | 104 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Arsenic | S15-De09975 | NCP | % | 83 | | | 70-130 | Pass | |
| Cadmium | S15-De09975 | NCP | % | 92 | | | 70-130 | Pass | |
| Chromium | S15-De09975 | NCP | % | 82 | | | 70-130 | Pass | |
| Copper | S15-De09975 | NCP | % | 92 | | | 70-130 | Pass | |
| Lead | S15-De09975 | NCP | % | 121 | | | 70-130 | Pass | |
| Mercury | S15-De09975 | NCP | % | 110 | | | 70-130 | Pass | |
| Nickel | S15-De09975 | NCP | % | 91 | | | 70-130 | Pass | |
| Zinc | S15-De09975 | NCP | % | 100 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbo | ns | | | Result 1 | | | | | |
| Acenaphthene | S15-De07544 | NCP | % | 94 | | | 70-130 | Pass | |
| Acenaphthylene | S15-De07544 | NCP | % | 98 | | | 70-130 | Pass | |
| Anthracene | S15-De07544 | NCP | % | 98 | | | 70-130 | Pass | |
| Benz(a)anthracene | S15-De07544 | NCP | % | 93 | | | 70-130 | Pass | |
| Benzo(a)pyrene | S15-De07544 | NCP | % | 97 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S15-De07544 | NCP | % | 92 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | S15-De07544 | NCP | % | 96 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S15-De07544 | NCP | % | 94 | | | 70-130 | Pass | |
| Chrysene | S15-De07544 | NCP | % | 105 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | S15-De07544 | NCP | % | 87 | | | 70-130 | Pass | |
| Fluoranthene | S15-De07544 | NCP | % | 101 | | | 70-130 | Pass | |
| Fluorene | S15-De07544 | NCP | % | 91 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | S15-De07544 | NCP | % | 89 | | | 70-130 | Pass | |
| Naphthalene | S15-De07544 | NCP | % | 100 | | | 70-130 | Pass | |
| Phenanthrene | S15-De07544 | NCP | % | 110 | | | 70-130 | Pass | |
| Pyrene | S15-De07544 | NCP | % | 101 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA | Units | Result 1 | | | Acceptance | Pass | Qualifying |
| | | Source | | | | | Limits | Limits | Code |
| Duplicate Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S15-De08100 | NCP | mg/kg | 4.2 | 4.8 | 13 | 30% | Pass | |
| Cadmium | S15-De08100 | NCP | mg/kg | 0.5 | 0.6 | 16 | 30% | Pass | |
| Chromium | S15-De08100 | NCP | mg/kg | 21 | 22 | 3.0 | 30% | Pass | |
| Copper | S15-De08100 | NCP | mg/kg | 180 | 160 | 9.0 | 30% | Pass | |
| Coppei | 313-De06100 | | | | | 8.0 | | | |
| Lood | C1E D000100 | | | 1 150 | | | | | |
| Lead | S15-De08100 | NCP | mg/kg | 150 | 160 | | 30% | Pass | |
| Mercury | S15-De08774 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Mercury Nickel | S15-De08774 S15-De08100 | NCP NCP | mg/kg mg/kg | < 0.05 12 | < 0.05 12 | <1 2.0 | 30% 30% | Pass Pass | |
| Mercury Nickel Zinc | S15-De08774 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Mercury Nickel | S15-De08774 S15-De08100 | NCP NCP | mg/kg mg/kg | < 0.05 12 300 | < 0.05 12 380 | <1 2.0 26 | 30% 30% | Pass Pass | |
| Mercury Nickel Zinc Duplicate | S15-De08774 S15-De08100 S15-De08100 | NCP NCP NCP | mg/kg mg/kg mg/kg | < 0.05 12 300 Result 1 | < 0.05 12 380 Result 2 | <1 2.0 26 RPD | 30% 30% 30% | Pass Pass Pass | |
| Mercury Nickel Zinc Duplicate % Moisture | S15-De08774 S15-De08100 | NCP NCP | mg/kg mg/kg | < 0.05 12 300 | < 0.05 12 380 | <1 2.0 26 | 30% 30% | Pass Pass | |
| Mercury Nickel Zinc Duplicate % Moisture Duplicate | S15-De08774 S15-De08100 S15-De08100 S15-De05957 | NCP NCP NCP | mg/kg mg/kg mg/kg | < 0.05 12 300 Result 1 2.6 | < 0.05 12 380 Result 2 2.6 | <1 2.0 26 RPD 2.0 | 30% 30% 30% | Pass Pass Pass | |
| Mercury Nickel Zinc Duplicate % Moisture Duplicate Polycyclic Aromatic Hydrocarbo | \$15-De08774 \$15-De08100 \$15-De08100 \$15-De05957 | NCP NCP NCP | mg/kg mg/kg mg/kg | < 0.05 12 300 Result 1 2.6 | < 0.05 12 380 Result 2 2.6 Result 2 | <1 2.0 26 RPD 2.0 | 30% 30% 30% 30% | Pass Pass Pass Pass | |
| Mercury Nickel Zinc Duplicate % Moisture Duplicate Polycyclic Aromatic Hydrocarbo Acenaphthene | \$15-De08774 \$15-De08100 \$15-De08100 \$15-De085957 \$15-De08192 | NCP NCP NCP | mg/kg mg/kg mg/kg | < 0.05 12 300 Result 1 2.6 Result 1 < 0.5 | < 0.05 12 380 Result 2 2.6 Result 2 < 0.5 | <1 2.0 26 RPD 2.0 RPD <1 | 30% 30% 30% 30% | Pass Pass Pass Pass | |
| Mercury Nickel Zinc Duplicate % Moisture Duplicate Polycyclic Aromatic Hydrocarbo | \$15-De08774 \$15-De08100 \$15-De08100 \$15-De05957 | NCP NCP NCP | mg/kg mg/kg mg/kg | < 0.05 12 300 Result 1 2.6 | < 0.05 12 380 Result 2 2.6 Result 2 | <1 2.0 26 RPD 2.0 | 30% 30% 30% 30% | Pass Pass Pass Pass | |



| Duplicate | | | | | | | | | | | |
|------------------------------|-------------|----------|----------|-------|-------|----|-----|------|--|--|--|
| Polycyclic Aromatic Hydrocar | bons | Result 1 | Result 2 | RPD | | | | | | | |
| Benzo(a)pyrene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Benzo(b&j)fluoranthene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Benzo(g.h.i)perylene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Benzo(k)fluoranthene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Chrysene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Dibenz(a.h)anthracene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Fluoranthene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Fluorene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Indeno(1.2.3-cd)pyrene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Naphthalene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Phenanthrene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |
| Pyrene | S15-De08192 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | | | |



Comments

Sample Integrity

 Custody Seals Intact (if used)
 N/A

 Attempt to Chill was evident
 Yes

 Sample correctly preserved
 Yes

 Appropriate sample containers have been used
 Yes

 Sample containers for volatile analysis received with minimal headspace
 Yes

 Samples received within HoldingTime
 Yes

 Some samples have been subcontracted
 No

Qualifier Codes/Comments

Code Description

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

Andrew Black Analytical Services Manager
Bob Symons Senior Analyst-Inorganic (NSW)
Ivan Taylor Senior Analyst-Metal (NSW)
Ryan Hamilton Senior Analyst-Organic (NSW)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

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

Uncertainty data is available on request

Eurofine, Impl shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report, In on case shall Eurofine; Impl be liable for consequential claims, but not limited to, lost profits, damages for relative to meet decidence and lost production arising from this report. This document shall not be reproduced except in full and relates only to the tiens tested. Others indicated otherwise, the tests were, the test share visits, the tests were, the test and the samples as received.

Report Number: 482676-S



ABN - 50 005 085 521 e.mail : EnviroSales@eurofins.com.au

web : www.eurofins.com.au

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Contact Name:

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

Company Name: SLR Consulting (Sydney)

Address: 2 Lincoln St

Lane Cove West

NSW 2066

Project Name: Project ID: 610.14433.00300

LINDFIELD

Order No.: 20113 Report #: 482676

Phone: Fax:

02 9428 8100

Eurofins | mgt Client Manager: Andrew Black

Dec 15, 2015

Craig Cowper

5 Day

Dec 8, 2015 12:18 PM

| | | Sample Detail | | | Polycyclic Aromatic Hydrocarbons | Metals M8 | Moisture Set |
|----------------|--------------------|------------------|--------|-------------|----------------------------------|-----------|--------------|
| Laboratory who | ere analysis is co | onducted | | | | | |
| Melbourne Lab | oratory - NATA S | Site # 1254 & 14 | 271 | | | | |
| Sydney Labora | tory - NATA Site | # 18217 | | | Х | Х | Х |
| Brisbane Labo | ratory - NATA Sit | te # 20794 | | | | | |
| External Labor | atory | | | | | | |
| Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | |
| DUP01A | Dec 06, 2015 | | Soil | S15-De08707 | | Х | Х |
| DUP02A | Dec 06, 2015 | | Soil | S15-De08708 | Х | | Х |



ABN - 50 005 085 521

e.mail: EnviroSales@eurofins.com.au

web: www.eurofins.com.au

Melbourne 3-5 Kingston Town Close Oakleigh Vic 3166 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone: +61 2 9900 8400 NATA # 1261 Site # 18217 Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: SLR Consulting (Sydney)

Contact name: Craig Cowper
Project name: LINDFIELD
Project ID: 610.14433.00300
COC number: Not provided

Turn around time: 5 Day

Date/Time received: Dec 8, 2015 12:18 PM

Eurofins | mgt reference: 482676

Sample information

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

Contact notes

If you have any questions with respect to these samples please contact:

Andrew Black on Phone: (+61) 2 9900 8490 or by e.mail: AndrewBlack@eurofins.com.au

Results will be delivered electronically via e.mail to Craig Cowper - ccowper@slrconsulting.com.





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|--------------------------------------|-----------------|---------------------|-----------------------------------|--------|----------------|------------------|-----------------------------|---|--------------|-------------------------|-------------------------|---------------------|-----------------------|----------------|----------------------|--------------------------------|------------------------------------|--|--------|-------|----------------------|----------------------|
| SGS Environmental Services | | Compar | ny Nam | ie. | SLR Consulting | | | | | | | Project Name/No: 61 | | | | 610.14433.00300 Lindfield | | | | | | |
| Unit 16, 33 Maddox Street | | Address | Address: | | | 2 Lincoln Street | | | | | | | Purchase Order No: So | | | | SGS PO 20112 Eurofins PO 20113 | | | | | |
| Alexandria NSW 2015 | | | | | | | Lane Cove NSW 2066 | | | | | | | | | | Standard Turnaround | | | | | |
| Telephone No: (02) 85 | 940400 | | | | | | | | | | | | | Telephone: | | | 0400 882 269 | | | | | |
| Facsimile No: (02) 85 | 940499 | Contact | Name | | Craig | Cowp | er | | | | | | | Facsi | mile: | | 02 9427 8200 | | | | | |
| Email: au.samplereceipt.sy | dney@sgs.com | | | | | | | | | | | | | Email | Resul | ts: | | ccowper@sirconsulting.com | | .com | | |
| Client Sample ID | Date Sampled | Lab Sample ID | WATER | SOIL | PRESERVATIVE | NO OF CONTAINERS | CL10 TRH/BTEX/PAH/Metals | CL16 TRH / BTEX / PAH/Metals / Phenols | CL5 TRH/BTEX | CL5 TRH/BTEX/PAH/VOC | CL2 8 metals | РАН | OCP | Phenol (total) | VOC (8260) | Asbestos (Absence/Presence) | ВТЕХ | 8 metals PAH ASSECTION PAH PAH ASSECTION PAH PAH ASSECTION | | | | |
| DUP01 | 06/12/15 | | | Х | Ice | 2 | | | | | X | | | | | | | | | | | |
| DUP01A | 06/12/15 | | | X | Ice | 2 | | | | | | | | | | | | | | Х | | SEND TO EUROFINS MGT |
| DUP02 | 06/12/15 | - | | X | Ice | 2 | | | | | | Х | | | | | 1 | - | | | | |
| DUP02A | 06/12/15 | | | Х | Ice | 2 | | | | | | | | | | | | X SEND TO EUROFINS I | | | SEND TO EUROFINS MGT | |
| Trip Spike | 06/12/15 | | X | | lce | 1 | - | | | - | | | | | | : | X | | | | | |
| Trip Blank | 06/12/15 | | X | | Ice | 1 | | ŭ | | | | | | | | | Х | | | | | |
| RB01 | 06/12/15 | | X | | Ice | 4 | | | | | X | Х | | | | | | | | | | |
| Relinquished By: Craig C | owper 🥌 | Da | te/Tim | e: 7 D | eceml | per @ | 8:30A | M | | F | Receiv | red By | i: 5 | ama | ilC | X | 2 | 7 | Date/T | ime < | 3/12 | /15 |
| Relinquished By: Date/Time: | | e: | Received By: | | | | | | | | Da | | | | Date/Time 12:18/11/2 | | | | | | | |
| Samples Intact: Yes/ No Temperature: | | ture: | Ambient / Chilled Sample Cooler S | | | | | | | ler Se | Sealed: Yes/No Laborato | | | | .abora | tory (| pry Quotation No: SLR Pricing 2015 | | | | | |
| Comments: Meth | | | | ethods | and o | letectio | n limit | s to s | uit NE | | | | | | | | L | Lab Quotation No: Eurofins Version 13.CS2 | | | | |

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Appendix D
Report Number 610.14433-R4
Page 1 of 1 **CALIBRATION**



| | PID CALIB | RATION LOG | |
|--------------------------------|------------------|---------------------------|-----------------|
| PID MODEL: MiniRae Lite PGM735 | 00 (10.6eV lamp) | PID SERIAL NUMBER: 595-00 | 00501 |
| Date: | 05/11/2015 | SLR Project Number: | 610.15486.00000 |
| Isobutylene Gas Lot No: | 1583028 | | |
| Isobutylene Standard (ppm): | 100 ppm | | |
| Fresh Air Cal (ppm): | 0.0 | | |
| Isobutylene Cal (ppm): | 100 | | |
| SLR Consultant Signature: | | | |
| Date: | 20/11/2015 | SLR Project Number: | 610.15675.00000 |
| Isobutylene Gas Lot No: | 1583028 | | |
| Isobutylene Standard (ppm): | 100 11 | | |
| Fresh Air Cal (ppm): | 0.0 | | |
| Isobutylene Cal (ppm): | 100 | / | |
| SLR Consultant Signature: | | | |
| Date: | 25/11/15 | SLR Project Number: | 10.15284.00000 |
| Isobutylene Gas Lot No: | 1583028 | | |
| Isobutylene Standard (ppm): | 100 | | |
| Fresh Air Cal (ppm): | 0.0 | | |
| Isobutylene Cal (ppm): | 100.5 | | |
| SLR Consultant Signature: | 100.5 Kha.M | (| |
| Date: | 06/12/15 | SLR Project Number: | 610.14433.00300 |
| Isobutylene Gas Lot No: | 1583028 | | |
| Isobutylene Standard (ppm): | 100 | | |
| Fresh Air Cal (ppm): | 0.0 | | |
| Isobutylene Cal (ppm): | 100 | | |
| SLR Consultant Signature: | | | |