ENVIRONMENTAL DUE DILIGENCE ASSESSMENT

SANDRINGHAM GOLF DRIVING RANGE

20 WANGARA ROAD

SANDRINGHAM VIC 3191

Prepared for Bayside City Council

76 Royal Avenue

SANDRINGHAM VIC 3191

Report Date: 24 July 2017

Report Number: RM406-M.1

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24 July 2017 Our Reference: RM406-M.1

Bayside City Council
76 Royal Avenue
SANDRINGHAM VIC 3191

Attention: Abraham Albatat

Dear Abraham

RE: ENVIRONMENTAL DUE DILIGENCE ASSESSMENT AT SANDRINGHAM GOLF DRIVING RANGE (20 WANGARA ROAD, SANDRINGHAM)

Geoaquitards Environmental has conducted Environmental Due Diligence Assessment for Sandringham Golf Driving Range (20 Wangara Road, Sandringham). This assessment has been undertaken as part of your correspondence received on 29 June 2017. The report and associated attachments are presented in this document.

Please do not hesitate to contact the undersigned if you require further information.

Prepared / Submitted by

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1	RM406-M.1	Final	24 July 2017	Bayside City Council	EE

1 INTRODUCTION

This report details the findings of Environmental Due Diligence Assessment for Sandringham Driving Range, 20 Wangara Road Sandringham ('the site') conducted by Geoaquitards Environmental for Bayside City Council, Abraham Albatat commissioned the work, by email on 29 June 2017.

2 BACKGROUND

During February 2017 Geoaquitards Environmental was requested by Bayside City Council to undertake Limited Targeted Classification of Wastes Report to provide an indication of the level of contamination from targeted eleven (11) targeted test locations at the site.

During the first round of soil sampling programme forty-six (46) soil samples were retrieved from eleven (11) test locations (on 27 February 2017) and submitted to Eurofins | mgt for laboratory analysis for classification of wastes.

This investigation was intended to identify areas of potential environmental concern at eleven (11) test locations at the site. The numbers of samples analysed were six (6) samples for Vic EPA IWRG 621 and eighteen (18) samples various depths to a maximum depth of 4.0m for IWRG 621 Metals (Metals M12) to provide an indication of contamination eleven (11) test locations.

Test results were compared with NEPM HIL "C", EIL Urban Residence/Public Open Space criteria and also clean fill criteria as set out in EPA Information Bulletin, Publication IWRG621, June 2009 *Soil Hazard Categorisation and Management,* Industrial Waste Resource Guidelines and samples reported concentrations above the cleanfill criteria for zinc (at test location 10 at 0.15m, 11 at 0.15m, and 11 at 1.0m), mercury (at test location 6 at 1.0m) and pH (1 at 1.50m and 2 at 1.0m)

Bayside City Council requested Geoaquitards Environmental in July 2017 to undertake further Environmental Due Diligence Assessment to cover the entire site and this Environmental Due Diligence Assessment details the combined information from round 1 and 2 soil sampling works.

3 OBJECTIVE AND WORK ELEMENTS

Objectives and work elements undertaken as part of this report is as follows:

3.1 Objective

The principal objective was to undertake Environmental Due Diligence Assessment of the entire site and to provide an indication of contamination levels at the site and to consider any further works and legal obligation that may be required to consider the site for any other beneficial uses.

3.2 Work Elements

The following work elements were undertaken as part of Environmental Due Assessment:

3.2.1 Soil Investigation

Soil investigation involved drilling, soil sampling, laboratory analysis, data compilation and reporting and details are as follows:

- Identify any on-site environmental impacts (such as adverse impacts on plants);
- Identify any aesthetic effects (such as staining of surface soil, soil vapour, landfill gas and odour);
- Soil sampling program to address potential contaminants of concern from potential source of contamination;
- Laboratory analysis of selected samples for potential contaminants of concerns;
- Comparison of the laboratory analytical results for the soil samples with NEPM HILs A, EIL urban residence/public open space, HSL A/B low-high density residential, Canadian CCME SQC for residential/parkland use, lowest available US EPA ECO-SSL, and HSL B for direct contact (CRC Care) Technical Report No 10; and
- Report any additional works and legal obligations that may be required to deal with these environmental impacts.

  Note: A full Stage one Primary Site Investigation was not undertaken however brief historical information is provided in this report as this was necessary to consider any development at the site (i.e. landfill activities).

4 SITE DESCRIPTION

4.1 Site Information

The subject land is located on the south side of the Wangara Road and east side of the George Street in Sandringham. The summary of site information is as follows:

TABLE 1 – SITE INFORMATION

Site Information	
Site Address	20 Wangara Road Sandringham 3191
Council Property Number	854166
Standard Parcel Identifier (SPI)	1\PS727384 and 2054\PP3163
Lot and Plan Number	Lot 1 PS727384 and Parish of Moorabbin Allot. 2054
Certificate of Title	Vol. 09965 Fol 822
Current site owner	Bayside City Council (Who is leasing it out to a private leasee)
Local government	Bayside City Council
Melway Reference	77 C11
Planning zone	Public Park And Recreation Zone (PPRZ) Schedule To The Public Park And Recreation Zone
Overlays	Design And Development Overlay (DDO) Design And Development Overlay – Schedule 2 (DDO2)
Site area	6.6 hectares
Current Use	Golf Driving Range/Golf Academy
Proposed Use	The site is under consideration for construction of number of netball courts.

4.2 Site Walkover

Geoaquitards Environmental representative visited the site on 3 July 2017 to conduct a preliminary site walkover survey.

The site is located approximately 17 kilometres to the south-east of the Melbourne CBD and approximately 2.14 kilometres north-west of the Cheltenham Railway station. The site measure approximately 6.6 Hectares and located on the corner of the Wangara Road and George Street and the site is basically rectangular in shape with a frontage to Wangara Road.

Surrounding land uses are generally industrial/business, residential, educational (Schools) and new Cheltenham Cemetery/Cheltenham Memorial Park is located east of the site.

Refer to Appendix A for Site Location Map and for Site Aerial Views.

4.3 Site Condition

Site inspection was carried out by a Geoaquitards Environmental Scientist on 3 July 2017 (Refer to Appendix A for Site Location Map and for Site Aerial Views). The site description is as follows:

TABLE 2 – SITE CONDITION

Site visit dates	Description
3 July 2017	- The site covers an area of approximately 6.6 Hectares and is generally grass covered. - The site is currently been used as Golf Driving Range and as a Golf Academy. - The main site entry is from Wangara Road. - Golf Club House and a brick building are located north of the site. - A car park is located one the north-west of the site covered by concrete or gravel. - Medium to large trees are located on the northern, southern, eastern and western boundaries of the site and no discolouration of leaves or foliation was noticed. - Most of the site filled, undulating and south of the site is raised from the ground level to approximately 7-10m from the road surface level. - Numbers of shipping containers were seen east of the site.

4.4 Surrounding Land Uses

The site surrounding information is described in Table 3.

TABLE 3 – SITE SURROUNDING INFORMATION

Direction	Comments
South	- Commercial developments are located south and south-east of the site. - Sandringham Golf Course is located further south of the site. - Residential developments are seen far south of the site.
North	- Commercial developments are located immediate north and north-east of the site. - Residential developments are seen far north and north-east of the site.
East	- Cheltenham Memorial Park/Cemetery is located immediate east of the site. - Commercial developments are located further east of the site. - Residential developments are seen far east of the site.
West	- Residential developments are located west of the site. - Sandringham College north-west of the site.

5 GEOLOGY

The geology of the site as mapped on Department of Economic Development, Jobs, Transport and Resources, Geological units represented as two dimensional polygons (1:250,000) produced by the Geological Survey of Victoria indicates that the site is located on the following two different geological units (Refer to Table 4 and Table 5 for Geological Desktop Search Information and for Figure 1 for Geological Map):

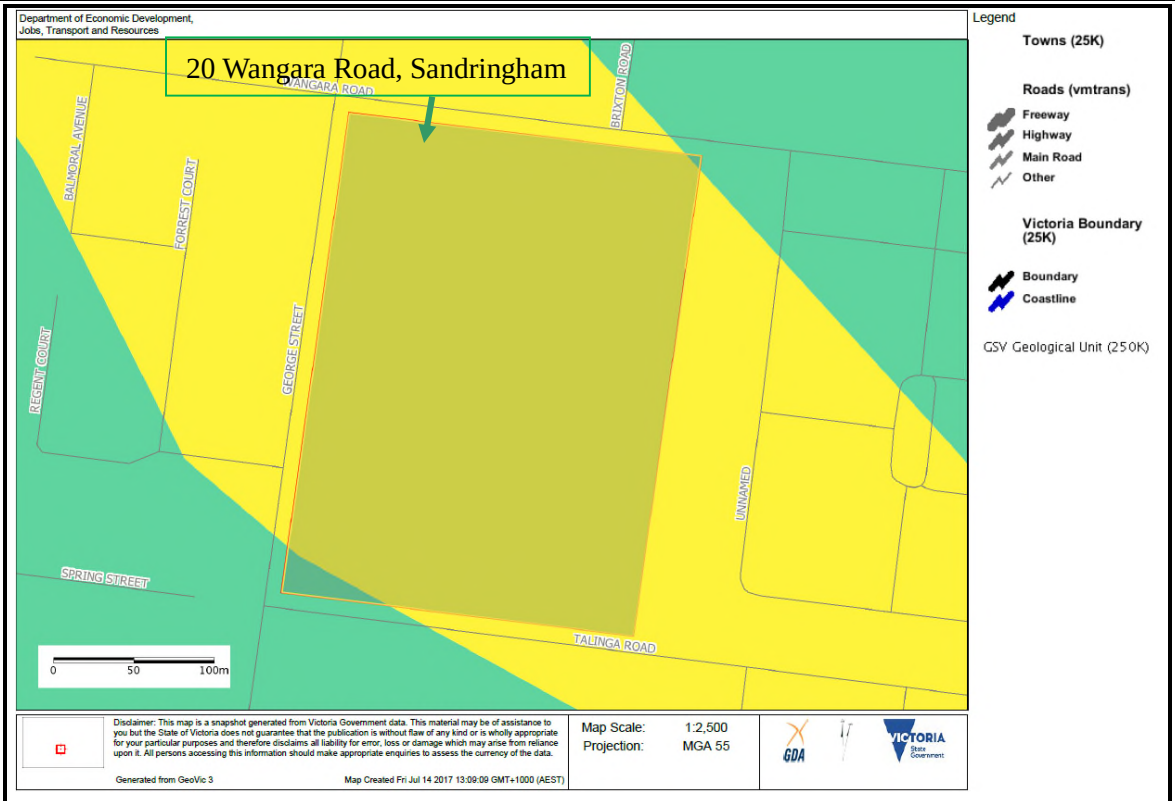
TABLE 4 - GEOLOGICAL DESKTOP SEARCH INFORMATION TO THE EAST OF THE SITE

Geological Polygons 250K	
Name:	Red Bluff Sandstone (Nbr): generic
Description	Sandstone, conglomerate: pale yellow and brown; fine to coarse-grained, massive to well bedded; cross-bedded; local ironstone
Geologic Unit Type	Lithostratigraphic
Rank	Formation [lithostratigraphic]
Lithology:	sandstone (significant); conglomerate (significant)
Geologic History	Miocene to Pliocene (channelled stream flow - fluvial [environment])
Generic Symboliser:	Nbr
GML_Id:	gsmlp.geologicunitview.250k-10006630

TABLE 5 - GEOLOGICAL DESKTOP SEARCH INFORMATION TO THE NORTH-EAST AND SOUTH-WEST OF THE SITE

Geological Polygons 250K	
Name:	inland dune deposits (Qd1): generic
Description	Sand, silt, clay: friable to consolidated; well sorted; includes both lunette deposits and deposits of longitudinal dunes
Geologic Unit Type	informal
Rank	informal Formation [lithostratigraphic]
Lithology:	silt [material] (significant); sand (significant); clay [lithology] (significant)
Geologic History	Quaternary to Quaternary (aeolian [process] - aeolian [environment])
Generic Symboliser:	Qd1
GML_Id:	gsmlp.geologicunitview.250k-10021003

FIGURE 1 - GEOLOGICAL MAP



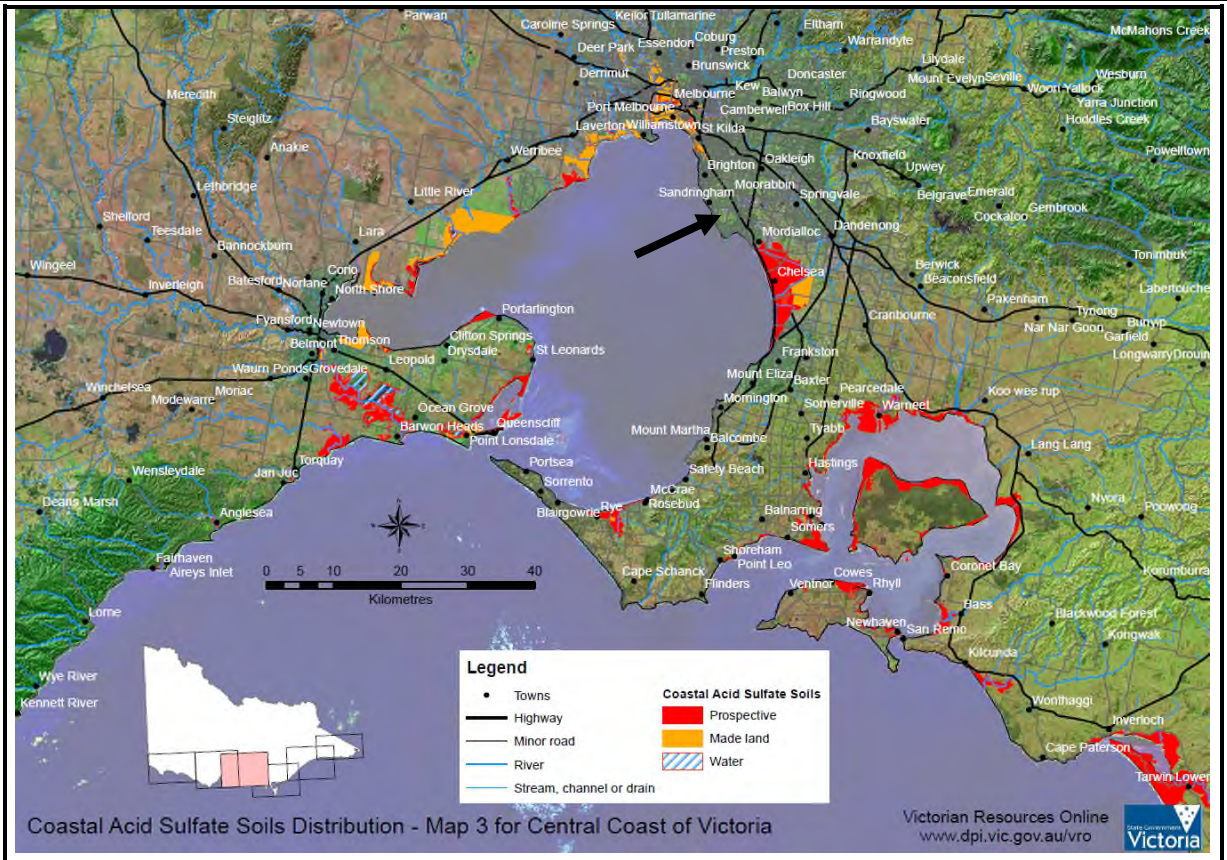
Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Figure	Geological Map
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Project	Environmental Due Diligence
Date	14 July 2017		

6 REVIEW OF ACID SULFATE SOIL (ASS) HAZARD MAP

As part of the site history a review of Coastal Acid Sulfate Soil Maps were undertaken 14 July 2017 (Ref: Victorian Coastal Acid Sulfate Soil Strategy, Published by the Victorian Government Department of Sustainability and Environment, Melbourne 2009). The results indicated that Sandringham Golf Driving Range (20 Wangara Road, Sandringham) is not included as prospective land that has the potential to contain Coastal Acid Sulfate Soil. Referenced Map 3 of Central Coast shown below.

FIGURE 2 - ACID SULFATE SOIL (ASS) HAZARD MAP



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Project	Environmental Due Diligence
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Adopted from	Coastal Acid Sulfate Soils Distribution - Map 3 for Central Coast of Victoria, Department of Economic Development, Jobs, Transport and Resources 2010
Date	14 July 2017		

7 TOPOGRAPHY

The topography of the site is undulating. Based on the site contour map extracted from Land Channel – Land.vic.gov.au indicates that the site lies approximately 41.5 to 32.5 meters above sea level and site generally slopes westerly, south-westerly direction, southern direction and south easterly direction with regional topography generally sloping westerly to south-westerly direction (Refer to Appendix M for site and regional contour map).

8 HYDROGEOLOGY

8.1 Anticipated Depth to Watertable

Based on the Visualising Victoria's Groundwater (VVG) online map study the anticipated depth to watertable beneath the site and in the surrounding area is between less than 5 to 10 meters. Refer to Figure 7 for VVG Depth to Watertable Map.

8.2 Anticipated Groundwater Flow Direction

Regional topography sloping gently to the westerly to south-westerly direction which is generally consistent with the direction of the closest natural surface water body the Port Phillip Bay located approximately 1.7km west of the site. Regional groundwater is considered likely to flow west or south west towards Port Phillip Bay.

8.3 Anticipated Groundwater Salinity and Segment

The Visualising Victoria's Groundwater (VVG) online map indicates the aquifer beneath the site is likely to have salinity less than 500 mg/L. The groundwater environment based on the Visualising Victoria's Groundwater (VVG) online map study indicates that the site is suitable for Segment A1 (SEPP). Refer to Figure 6 for VVG Groundwater Salinity Map.

9 SITE HISTORY

9.1 Royal Historical Society of Victoria Inc Information

Geoaquitards Environmental contacted Geraldine Horgan, administrative officer from Royal Historical Society. The site historical activities and the following historical information and the following text were provided by Royal Historical Society of Victoria Inc (Refer to Appendix C):

- The site for review is located on the south east corner of Wangara Road and George Street, Sandringham. The site extends through to Talinga Road which forms the southern boundary.
- The site therefore has a frontage to Wangara Road (north side boundary), George Street (west side boundary) and Talinga Road (south side boundary). The Cheltenham Cemetery abuts the site on the east side.
- In the Sands & McDougall Directories, up until the final edition in 1974, the site under review has been listed as being within the suburb of Cheltenham.
- According to the Sands and McDougall Street Directories, Bay Road (to the north of the site) was constructed in 1876, and this area has been associated with market gardening up until the 1950's.
- Wangara Roads was not listed in the Sands and MacDougall Directories until the

mid-1960s.

- The Cheltenham Memorial Park and Cemetery, adjacent to the site under review, was established in 1933. At that time this section of Wangara Road appears to have been an extension of Holloway Road (located to the west) and known as Holloway Road.
- In the 1935 Sands & McDougall Directory the occupant of the site under review is listed as Ernest Springhall with the Cheltenham Cemetery next listed, on the east side. There is no information as to the use of the subject land.
- In the 1942 directory the occupant is listed as Harry Forrest, then the cemetery.
- In the 1950 and 1955 directories the occupant is listed as William Moore, then the cemetery. In both these years the land directly opposite the site, on the north side of Holloway Road, is listed as W T Grant, Sandpits.
- In the 1960 directory the occupant of the site under review is listed as L J Ayres.
- In the 1965 directory the occupant is still listed as L J Ayres however the street name had changed from “Holloway” to “Wangara”.
- In the 1970 directory the occupant remains as L J Ayres, with the Cheltenham Cemetery adjacent.
- In the 1974 directory (the final edition of the Sands & McDougall Directories) the occupant is listed as L J Ayres however the “City of Sandringham Council Tip” is also listed between L J Ayres and the Cemetery.
- In the 1976 Melways Street Directory the site under review is listed as ‘Wangara Reserve’. In the 1988 Street Directory this had changed to ‘Golf Driving Range’ and this is still the notation over the site in the 2017 Street Directory.

The above research was undertaken by Greg Buchanan from Royal Historical Society of Victoria Inc. The summary of Royal Historical Society of Victoria Inc indicates that site was used as City of Sandringham Council Tip since 1976 to 1976 and in 1976 site was used as Wangara Reserve and since 1988 to present the site is used as Golf Driving Range.

9.2 Priority Sites Register Extract

As part of the site history review a search was conducted through Victoria Environment Protection Authority to ascertain whether the site was registered on the Priority Sites Register.

Priority Sites are sites for which EPA has issued a Clean-up Notice pursuant to section 62A, or a Pollution Abatement Notice pursuant to section 31A or 31B (relevant to land and/or groundwater) of the Environment Protection Act 1970 (‘the Act’). Typically these are sites where pollution of land and/or groundwater presents an unacceptable risk to human health or to the environment.

Results of these EPA Priority Sites Register Extract searches conducted on 17 July 2015 through SAI Global Property Division Pty Ltd, found that the site is not listed on the priority site register and also the subject site is not in the vicinity of a sites listed on the priority site register at the date last notified by the EPA. (Refer to Appendix B - EPA Priority Sites Register Extract)

9.3 Title Information

Following title information was provided by Abraham Albatat from the Bayside City Council on 24 July 2017 and copy of the Title information reviewed is provided in Appendix N.

TABLE 6 – SUMMARY OF TITLE INFORMATION

Date	Volume/Folio No.	Proprietor/ Lease/Profession
01/08/1990	**Vol. 09965 Fol. 822** Derived from Vol. 04156 Fol. 189 Vol. 05678 Fol. 536 Vol. 06979 Fol. 743 Vol. 07760 Fol. 066 to Vol. 07760 Fol. 067 Vol. 09749 Fol. 227 Vol. 09933 Fol. 756	The Mayor Councillors and Citizens of the City of Sandringham
10/03/1987	**Caveats**	Golf Driving Range (Sandringham) Pty Ltd

9.4 Historical Information Provided by the Council

Historical information provided by the Darren Sampson from the Bayside City Council on 16 January 2017 indicated that the site was an old tip site and the Pacific Dunlop Battery factory was located to the west of the site. Refer to the historical aerial photographs dated 1970 and 1981 provided by the Council.

Additionally number of Historical Council documents for the subject site was provided by the Abraham Albatat from the Bayside City Council on 18 July 2017.

Summary of these Historical Council documents are as follows;

- A Historical Council document dated 9 December 1985 relating to the site indicated that the Council had leased 4, 800 Sqm of the site to Small Bore Rifle Club in 1981 and was proposed to be used as a Small Bore Rifle Range. In 1982 the club carried out some preliminary earth works; however in 1983 the owners adjoining land, The Cheltenham Cemetery trust advised of their concern regarding the site uses as a Rifle Range and in 1985 the Cemetery Trust advised Council that they object to the proposed Rifle Range and Council had concluded that the proposed site use as a Rifle Range was incompatible and would detrimentally affect the use of the adjoining land for cemetery purposes.
- A Historical Council document dated 26 March 1986 concerning the site indicated that the Council supported an application by Eight Days per Week Pty Ltd to establish a Golf Driving Range on the site as lessee to the Council. Additionally this historical document also indicated that the site was used as a Municipal Garbage Tip until 1968 and was reserved for Public Open Space.
- Borehole logs undertaken by D. Sutchcuffe in April 1985 at the site indicated that site contained Loamy/Sandy Loam/Sandy topsoil up to 600mm and FILL material containing broken bottles, metals, plastic bags, soil, concrete, bluestone and old shoes up to 1,800mm.

Following additional Historical information in relation to the site was provided by the Abraham Albatat from the Bayside City Council on 24 July 2017.

- In 1985, Bruce Green identified a need for a golf practice facility in the Bayside area and came upon the disused tip area in Holloway Rd (now Wangara Rd).

- The 15 acre site was totally overgrown and littered with car bodies, rocks, massive overgrowth and the occasional tree.
- About six months later the, then, Sandringham Council advertised for expressions of Interest for the site to be developed far purposes including a golf practice range. The Council required all development costs to be borne by the successful tenderer.
- Bruce formed a syndicate comprising himself, Head Professional of Royal Melbourne Golf Club, Barry Flynn a marketing expert, Peter Williams the Course Superintendent at the Royal Melbourne Golf Club, and local businessman Stan Lenepvue, who together with Bruce's mother Iris Green financed the project.
- Initial funds of $320,000 were invested in 1986 building driving bays and office facilities, totally levelling the site, growing grass and planting some 800 indigenous trees.
- Over the ensuing years, the facility grew in popularity and in 1994 was further developed by constructing a mini golf facility and upgrading the ball dispensing area. The total cost was $277,210.
- In late 1999, the Dunlop factory in George Street closed down and the site was sold for housing. Safety Issues with the new housing forced the dismantling of the existing practice bays to re-align them. The opportunity was taken to construct covered 'Driving Bays and substantially upgrade the existing food and beverage dispensing area. A property functioning Café/Restaurant, catering for the disabled, which included wheelchair path and toilet facilities was constructed at a total cost of $1,148,643.
- The total capital investment In the Driving Range since its establishment in 1986 is over $2,000,000.
- The first ever Bayslde Golf Academy was created at the driving range and still operates from there today under the banner of the Sandringham Golf Academy.

Refer to Appendix L for Historical Information Provided by the Council.

9.5 Summary of Site History

Site history search undertaken for the site by Geoaquitards Environmental through Royal Historical Society of Victoria Inc identified that the site was used as a City of Sandringham Council Tip in 1974; however this search does not proved any information regarding the start dates, end dates and the duration of the subject site’s operation as the City of Sandringham Council Tip.

EPA Priority Sites Register Extract searches conducted on 17 July 2015 through SAI Global Property Division Pty Ltd, found that the site is not listed on the priority site register and also the subject site is not in the vicinity of a sites listed on the priority site register at the date last notified by the EPA.

Historical information provided by the Bayside City Council indicated that the site was used as a tip site and the former Pacific Dunlop Battery factory which was located west of the site.

Historical document provide by Council indicated that the subject land was used as a Municipal Garbage Tip until 1968 and was reserved for Public Open Space.

In 1981 the site was proposed to be used as a Small Bore Rifle Range by Small Bore Rifle Club; however Council had concluded that the proposed site use as a Rifle Range was incompatible.

Since 1986 the site has been leased for the use of Golf Driving Range by Eight Days per Week Pty Ltd.

10 PROTECTED BENEFICIAL USES OF LAND

The State Environment Protection Policy (Prevention and Management of Contamination of Land) (Land SEPP) sets out the regulatory framework for the prevention and management of contaminated land within the State of Victoria. The intent of this framework is to maintain and maximise (to the extent practicable) the quality of the land environment in Victoria, in order to protect its existing and potential beneficial uses. The Land SEPP was declared in June 2002 in accordance with Section 16 of the Environment Protection Act 1970. The Environment Protection Authority (EPA) is responsible for its implementation. The Land SEPP identifies specific land use categories as well as a number of protected beneficial uses associated with each of the land use categories.

In accordance with the SEPP protected beneficial uses of land are as follows:

- Maintenance of ecosystems.
- Human health.
- Buildings and structures
- Aesthetics and
- Production of Food, Flora and Fibre

TABLE 7 - PROTECTED BENEFICIAL USES OF LAND*

Beneficial Uses	Land Use						
	Parks & reserves	Agricultural	Sensitive Use		Recreational /Open Space	Commercial	Industrial
			High Density	Other			
Maintenance of Ecosystems							
Natural Ecosystems	✓						
Modified Ecosystems	✓	✓		✓	✓		
Highly Modified Ecosystems		✓	✓	✓	✓	✓	✓
Human Health	✓	✓	✓	✓	✓	✓	✓
Buildings & Structures	✓	✓	✓	✓	✓	✓	✓
Aesthetics	✓		✓	✓	✓	✓	
Production of Food, Flora & Fibre	✓	✓		✓			

Note: * The above table is a reproduction from the SEPP Prevention *and Management of Contamination of Land* (June 2002)

10.1 Soil Quality Objectives

Soil quality objectives for the protected beneficial uses of the land are as follows:

TABLE 8 – INDICATORS AND OBJECTIVE FOR BENEFICIAL LAND USES

Beneficial Land Use	Indicators	Objectives
Maintenance of Ecosystems	Chemical substances or waste identified in NEPM Schedule B (2), 2013	Level of indicator must not be greater than the ecological investigation level (EIL), other appropriately derived risk based criteria or levels approved by the EPA
Protection of Human Health	Chemical substances or waste identified in NEPM Schedule B (2), 2013	Level of indicator chemical must not be greater than the health risk-based threshold levels (HIL Criteria) for specified land uses HIL A for this site or other appropriately derived risk based criteria or levels approved by the EPA
Buildings & Structures	pH, sulphate, Redox potential, salinity or any potentially detrimental chemical substance or waste	Contamination must not cause the land to be corrosive to or adversely affect the integrity of structures or building materials*
Aesthetics	Offensive substances - visual or olfactory	Contamination not to cause the land to be offensive to the senses of human beings
Production of Food, Flora and Fibre	Chemical substances or waste identified through the application of the National Environment Protection, 2013 Schedule B2-Guideline on Investigation Levels for Soil and Groundwater	Contamination of land must not: (a) adversely affect produce quality or yield; and (b) affect the level of any indicator in food, flora and fibre produced at the site (or that may be produced) such that the level of that indicator is greater than that specified by the Australia New Zealand Food Authority, Food Standards Code

10.1.1 Maintenance of Ecosystems

The SEPP states that the level of a chemical substance or waste (indicator) must not be greater than any regional Ecological Investigation Level (EIL) developed in accordance with the National Environment Protection (Assessment of Site Contamination) Measure (The NEPM" NEPC, 2013).

Ecological investigation levels (EILs) have been developed for selected metals and organic substances and are applicable for assessing risk to terrestrial ecosystems. EILs depend on specific soil physicochemical properties and land use scenarios and generally apply to the top 2 m of soil.

Ecological investigation levels (EILs) for the protection of terrestrial ecosystems have been derived for common contaminants in soil based on a species sensitivity distribution (SSD) model developed for Australian conditions. These include:

- Generic level for aged arsenic (As);
- Generic level for fresh DDT;
- Generic level for fresh naphthalene;
- Added contaminant limit for lead (Pb);
- Added contaminant limit for nickel (Ni) using cation exchange capacity (CEC);
- Added contaminant limit for copper (Cu) using CEC or pH;
- Added contaminant limit for chromium III (Cr III) using %clay;
- Added contaminant limit for aged zinc (Zn) using CEC and pH

NEPM (2013) based EILs for CrIII, Cu, Ni, Pb, Zn are background concentration (inferred from site data based on Olszowy et al. (1995)) + added concentration limit (ACL) based on Average soil pH 7.45, Average CEC 19.5 cmol/kg, and Organic carbon content of 0.8%OC.

In addition to this Ecological screening levels (ESLs) were considered for petroleum hydrocarbons in soil (BTEX, benzo (a) pyrene, TPH). ESLs broadly apply to coarse- and fine-grained soils and various land uses. They are generally applicable to the top 2m of soil and are applicable for assessing risk to terrestrial ecosystems.

EILs and ESLs have been developed for three generic land use settings. Generic land uses and the protection levels for the generic land use settings are as follows.

- Areas of ecological significance – 99% protection level;
- Urban residential areas and public open space - 80% protection level; and
- Commercial and industrial land uses - 60% protection level.

EILs and ESLs for urban residential areas and public open space have been adopted for the site. For analytes where there are no EILs published in the NEPM 2013 following criteria have been adopted for the site.

- ANZECC (1992) Environmental Investigation Levels;
- USEPA Ecological Soil Screening Levels (as amended from time to time);
- Canadian CCME SQC for Residential/Parkland Land Use; and
- The upper limit for fill material for selenium from EPA Publication IWRG621.

10.1.2 Human health

The investigation level specified for human health in the NEPM (NEPC, 2013). Schedule A (1) of the NEPM (NEPC, 2013) provides a range of investigation levels for the protection of human health, referred to as Health-based Investigation Levels (HILs).

HILs are provided for following exposure settings based on land use:

- **HIL A:** residential with garden/accessible soil (home grown produce <10% fruit and vegetable intake, (no poultry), also includes children's day care centres, preschools and primary schools);

- **HIL B:** residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats;
- **HIL C:** public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate; and
- **HIL D:** commercial/industrial such as shops, offices, factories and industrial sites.

The exposure setting HIL A is adopted for the unrestricted land uses and HIL B is adopted for the residential land use with minimal opportunities for soil access.

NEPM HILs are not intended for use as default remediation trigger criteria, but are intended to prompt an appropriate site-specific assessment of risk when they are exceeded. This is consistent with Table 2 of the SEPP (PMCL), which allows for objectives derived using a risk-based methodology to be adopted in place of HILs.

For chemicals for which HILs are not specified in the NEPM, screening levels published by the alternative national and/or international sources and Health Screening Levels (HSLs) derived by Friebel and Nadebaum (2011) were adopted for the site.

The values adopted were the lowest of those derived for vapour intrusion and direct contact pathways for the relevant land use(s). The screening levels for vapour intrusion are derived for a range of soil types and contamination source depths.

Where relevant the most conservative of the derived values (those derived for sand lithology and with contamination at depths of 0 to <1 m depth) were adopted.

The HSLs for BTEX and naphthalene (which are not saturation or solubility limited) are considered appropriate for use at sites where the source of contamination includes petroleum and/or non-petroleum based activities (e.g. coal gas manufacture).

The HSLs for TPH fractions have been derived for typical petroleum mixtures (petrol and diesel) and therefore considered appropriate for the assessment of petroleum contamination. Based on the source of TPH at the site, application of the TPH HSLs to the site are considered appropriate. Assessment of soil contamination has also been based on other indicator/target compounds associated with the source of contamination (e.g. PAHs and BTEX).

10.1.3 Buildings and structures

The SEPP states "Contamination must not cause the land to be corrosive to or adverse effect the Integrity of structures or building materials".

Relevant indicators are stated by the SEPP to be "pH, sulphate, redox potential, salinity or any chemical substance or waste that may have a detrimental impact on the structural integrity of buildings or other structures."

Objectives for these key indicators have primarily been sourced from Australian Standard 2159-2009 Piling Design and Installation, in which levels of pH, chloride and sulphate which are considered to represent mild and/or non-aggressive conditions for concrete or steel piles are specified. The values adopted for initial screening (<1,666.67 mg/kg sulphate as S, pH >5.5 and <5,000 mg/kg chloride) are the most conservative of those reported in AS2159 for concrete and steel piles, and are considered to be associated with mild or non-aggressive conditions only where all objectives are met.

The potential for organic compounds (e.g. solvents or petroleum hydrocarbons) to corrode or

adversely impact (e.g. permeate) non-metal underground services should also be considered, particularly where saturated concentrations or free phase product are in contact with buildings and/or structures.

10.1.4 Aesthetics

Currently there are no concentration based aesthetic criteria for soil and SEPP states "Contamination must not cause the land to be offensive to the senses of human beings". Aesthetic observations are subjective, it is considered that if there is discolouration, noticeable odour from the soil on the site or if there are obvious component of waste, such as rubble or similar, then there is a potential aesthetic concern.

10.1.5 Production of Food, Flora and Fibre

The SEPP states contamination of land must not adversely affect produce quality or yield and affect the level of any indicator in food, flora and fibre produced at the site (or what may be produced) such that the level of that indicator is greater than the specified by *Australia New Zealand Food Authority Food Standard Code*. The NEPM EILs/ESLs criteria's are adopted to assess the SEPP protected beneficial uses of land - Production of Food, Flora and Fibre.

11 CONCEPTUAL SITE MODEL

The purpose of a Conceptual Site Model (CSM) is to identify potential risks present at the site relative to the surrounding environment. The potential sources, transport mechanisms and exposure pathways, and potential sensitive receptors in close proximity to the subject property—based on the findings of this investigation and previous investigations—are presented in the sections below.

11.1 Potential Source for Contamination

Potential source for contamination is from the former Garbage Tip activities and from the former Pacific Dunlop Battery factory located west of the site.

11.1.1 Potential Source for Contamination

Based on the limited desktop study and preliminary historical search carried out for the site the following summary of potential source of contamination was identified:

TABLE 9 - SUMMARY OF POTENTIAL SOURCE OF CONTAMINATION

Contamination Source	Potential Contaminants
Importation of contaminated fill and landfill activities	Miscellaneous- TRH/PAH/ OCP/PCB/Vinyl Chloride/Metals (As, Cd, Cr, Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se, Zn)/Cr6+/CN/Total Fluoride/pH, Alkanes and ammonia, sulphides, heavy metals, organic acids
Former Pacific Dunlop Battery factory	Lead, manganese, zinc, cadmium, nickel, cobalt, mercury, silver, antimony

11.2 Potential Receptors

11.2.1 Potential Off-site Receptors

Potential off-site receptors in the surrounding area are as follows:

- The nearest off-site receptors are residents of the neighbouring properties located west of the site;
- People walking in commercial sites located to the north and south of the site; and
- People playing in Sandringham Golf Course and other nearby parks.

11.2.2 Potential On-site Receptors

Based on the current and proposed site uses the following human and ecological receptors have been identified:

- Maintenance and construction workers; and
- People playing and walking in Golf Driving Range.

In addition, following ecological receptors has been identified:

- Plants and animals associated with areas of open, accessible soil.

11.3 Potential Transport Mechanisms and Exposure Pathways

The chemicals of concerns can potentially be transported and the receptors can be exposed via the following:

- Groundwater migration;
- Dermal contact and ingestion of contaminated groundwater;
- Extraction of groundwater;
- Dust inhalation;
- Ingestion of contaminated soil; and
- Vapour migration/inhalation of vapours.

12 SOIL ASSESSMENT

12.1 Soil Assessment Scope of Works

As part of the soil assessment at the subject site following works were undertaken:

- Site inspection prior to field works proceeding, to assess accessibility and possible sampling locations;
- All soil samples retrieved during all rounds of soil sampling works were submitted to a NATA accredited laboratory for analysis (primary samples- were analysed by Eurofin MGT and secondary samples were analysed by ALS Environmental).
- All samples were tested for field PID.
- Analysis of soil samples for a range of analytes (Refer to section 12.5), with selected analysis at various locations.
- Preparation of a report detailing the findings of the investigation works.

Soil Assessment details for Initial Detailed Site Investigations Soil Assessment, Validation Soil Assessment, Additional Soil Sampling Works and Groundwater Bore Installation Soil Assessment are as follows:

12.1.1 Soil Assessment for Initial Detailed Site Investigations

As a part of Initial Detailed Site investigations the following scope of works were undertaken for the first stage of soil assessment:

- Site inspection prior to field works proceeding, to assess accessibility and possible sampling locations.
- Soil samples were generally collected at 0.15 m, 0.50 m, 1.00 m, 1.50 m, 2.00 m, 2.50m and 3.0m below the ground surface.
- Sampling locations and number of sampling undertaken for the site are as follows, (Refer to Appendix J for soil sampling test locations):

TABLE 10 – SAMPLING LOCATIONS AND NUMBER OF SAMPLING UNDERTAKEN AT THE SITE

Sampling Date	Sampling Type	Sampling Works	Sampling Locations	Number of Locations
27 February 2017	Soil Bore	Grid Sampling Locations	Location 1 to 11	11
3 July 2017	Soil Bore	Grid Sampling Locations	Location 12 to 85	74
Total Number of test locations				**85**

- Analysis of primary samples by Eurofins | mgt and secondary sample by ALS Environmental.
- Analysis of soil samples for a range of analytes (Refer to section 12.5), with selected analysis at various locations.
- Preparation of a report detailing the findings of the investigation works.

12.2 Adopted Criteria

The adopted soil criteria for the relevant beneficial uses of land at the site are shown in Table 11 below:

TABLE 11 – ADOPTED SOIL ASSESSMENT CRITERIA

Contaminant	EIL[I]	ESL[I]		HIL C[L]	HSL C[M]											
		Coarse Soil Texture	Fine Soil Texture		SAND	0m to <1m	1m to <2m	2m to <4m	SILT	0m to <1m	1m to <2m	2m to <4m	CLAY	0m to <1m	1m to <2m	2m to <4m
BTEX																
Benzene	-	50	65	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
Ethylbenzene	-	70	125	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
Toluene	-	85	105	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
Xylenes - Total	-	105	45	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
Heavy Metals																
Arsenic	100	-	-	300		-	-	-		-	-	-		-	-	-
Barium	330[B]	-	-	15000[W]		-	-	-		-	-	-		-	-	-
Beryllium	21[B]	-	-	90		-	-	-		-	-	-		-	-	-
Boron	-	-	-	20000		-	-	-		-	-	-		-	-	-
Cadmium	10[A]	-	-	90		-	-	-		-	-	-		-	-	-
Chromium	410[C]	-	-			-	-	-		-	-	-		-	-	-
Cobalt	120[B]	-	-	300		-	-	-		-	-	-		-	-	-
Copper	220[D]	-	-	17000		-	-	-		-	-	-		-	-	-
Lead	1100	-	-	600		-	-	-		-	-	-		-	-	-
Manganese	500[U]	-	-	19000		-	-	-		-	-	-		-	-	-
Methyl Mercury	-	-	-	13		-	-	-		-	-	-		-	-	-
Mercury (inorganic)	6.6[A]	-	-	80		-	-	-		-	-	-		-	-	-

Contaminant	EIL[I]	ESL[I]		HIL C[L]	HSL C[M]											
		Coarse Soil Texture	Fine Soil Texture		SAND	0m to <1m	1m to <2m	2m to <4m	SILT	0m to <1m	1m to <2m	2m to <4m	CLAY	0m to <1m	1m to <2m	2m to <4m
Nickel	270[F]	-	-	1200		-	-	-		-	-	-		-	-	-
Selenium	10[V]	-	-	700		-	-	-		-	-	-		-	-	-
Vanadium	280[B]	-	-	390[W]		-	-	-		-	-	-		-	-	-
Tin	50[U]	-	-	-		-	-	-		-	-	-		-	-	-
Chromium (hexavalent)	130[B]	-	-	300		-	-	-		-	-	-		-	-	-
Cyanide (free)	-	-	-	240		-	-	-		-	-	-		-	-	-
Zinc	730[E]	-	-	30000		-	-	-		-	-	-		-	-	-
Fluoride	450[V]	-	-	3100[W]		-	-	-		-	-	-		-	-	-
Organochlorine Pesticides																
DDT+DDE+DDD	-	-	-	400		-	-	-		-	-	-		-	-	-
Aldrin and Dieldrin	-	4[T]	4[T]	10		-	-	-		-	-	-		-	-	-
DDT	180[V]	-	-	-		-	-	-		-	-	-		-	-	-
Chlordanes	-	-	-	70		-	-	-		-	-	-		-	-	-
Endosulfan	-	-	-	340		-	-	-		-	-	-		-	-	-
Endrin	-	-	-	20		-	-	-		-	-	-		-	-	-
Heptachlor	-	-	-	10		-	-	-		-	-	-		-	-	-
Hexachlorobenzene (HCB)	-	-	-	10		-	-	-		-	-	-		-	-	-
Mirex	-	-	-	20		-	-	-		-	-	-		-	-	-

Contaminant	EIL[I]	ESL[I]		HIL C[L]	HSL C[M]											
		Coarse Soil Texture	Fine Soil Texture		SAND	0m to <1m	1m to <2m	2m to <4m	SILT	0m to <1m	1m to <2m	2m to <4m	CLAY	0m to <1m	1m to <2m	2m to <4m
Toxaphene	-	-	-	30		-	-	-		-	-	-		-	-	-
Methoxychlor	-	-	-	400		-	-	-		-	-	-		-	-	-
Phenols																
2.4.5-Trichlorophenol	-	-	-	800		-	-	-		-	-	-		-	-	-
2.4-Dichlorophenol	-	-	-	1300		-	-	-		-	-	-		-	-	-
Pentachlorophenol	-	-	-	120		-	-	-		-	-	-		-	-	-
Cresols	-	-	-	4000		-	-	-		-	-	-		-	-	-
Phenol	3.8[A]	-	-	40000		-	-	-		-	-	-		-	-	-
PAH																
Benzo(a)pyrene	-	0.7	0.7	-		-	-	-		-	-	-		-	-	-
Benzo(a)pyrene TEQ (lower bound)*	-	-	-	3		-	-	-		-	-	-		-	-	-
Total PAH	18[B]	-	-	300		-	-	-		-	-	-		-	-	-
Total Recoverable Hydrocarbons																
Naphthalene	170	-	-	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
TRH >C10-C16	-	-	-	3800[H]												
TRH >C10-C16 less Naphthalene (F2)	-	120	120	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
TRH >C16-C34	-	300	1300	5300[H]		-	-	-		-	-	-		-	-	-

Contaminant	EIL[I]	ESL[I]		HIL C[L]	HSL C[M]											
		Coarse Soil Texture	Fine Soil Texture		SAND	0m to <1m	1m to <2m	2m to <4m	SILT	0m to <1m	1m to <2m	2m to <4m	CLAY	0m to <1m	1m to <2m	2m to <4m
TRH >C34-C40	-	2800	5600	7400[H]		-	-	-		-	-	-		-	-	-
TRH C6-C10	-	-	-	5100[H]		-	-	-		-	-	-		-	-	-
TRH C6-C10 less BTEX (F1)	-	180	180	-		NL	NL	NL		NL	NL	NL		NL	NL	NL
Volatile Organics																
1.1.1-Trichloroethane	5[A]	-	-	-		-	-	-		-	-	-		-	-	-
Trichloroethene (TCE)	0.01[A]	-	-	-		-	-	-		-	-	-		-	-	-
Total PCB	1.3[A]	-	-	1		-	-	-		-	-	-		-	-	-

Note:

A - Canadian CCME SQC for Residential/Parkland Land Use
B - US EPA Eco-SSL
C - EIL Calculated based on Clay content of 14.65%
D - EIL Calculated based on soil pH 7.45, CEC of 19.5 cmol/kg and Organic carbon content of 0.8%OC
E - EIL Calculated based on soil pH 7.45, CEC of 19.5 cmol/kg
F - EIL Calculated based on CEC of 19.5 cmol/kg
H - Soil Health Screening Levels for direct contact (CRC Care) Table 4 - Technical Report No.10
I - Urban Residential/Public Open Space
L. HIL C - Public open space such as parks, playground, playing fields, secondary schools and footpath
M - HSL C - Public open space such as parks, playground, playing fields, secondary schools and footpath
T - Sum of Drins, Dutch Soil Remediation Circular 2009 - intervention values for soil
U - ANZECC 1992
V - EPA Publication 621 (Upper Limit for Fill Material)
W - USEPA (Regional Screening Levels) – for TCE the non-carcinogenic screening level has been adopted as it is lower than the carcinogenic screening level when the carcinogenic level is adjusted for 1 x10-5 target risk;

12.3 Sampling

Soil sampling was conducted in accordance with relevant parts of the Victorian EPA guidelines and the recommendations of the Australian Standard 4482.1 (2005).

The site under investigation measures approximately 6.6 hectares and minimum-sampling points required for site characterisation in accordance with AS4482.1 (2005) is eighty-five (85) test locations based on detection of circular hot spots using square grid (Refer to Appendix J for Test Location Plan).

Eighty-five (85) grid locations were undertaken during soil sampling programme by Geoaquitards Environmental as part of this assessment. Soil samples were generally collected at depths of 0.15 m, 0.50 m, 1.00 m, 1.50 m, 2.00 m, 2.50 m and 3.00 m during soil sampling.

12.3.1 Summary of Soil Sampling Program

The following soil sampling program was completed as part of Environmental Due Diligence:

TABLE 12 – SOIL SAMPLING PROGRAM

Sample Date	Investigation	Works
27 February 2017	Soil Sampling	Soil bore samples from eleven (11) were collected (Method: Mechanical auger drilling by Civiltest Pty Ltd)
3 July 2017	Soil Sampling	Soil bore samples from seventy-four (74) were collected (Method: Mechanical auger drilling by Civiltest Pty Ltd)

- The site under investigation measures approximately 6.6 hectares and minimum-sampling points required for site characterisation in accordance with AS4482.1 (2005) is eighty-five (85) test locations.
- The total number of sampling locations investigated for the subject land was eighty-five (85) test locations.

12.4 Decontamination

Decontamination of sampling equipment was completed in accordance with the Standard Procedure. Decontamination of the sampling scoop and hand augers comprised of removal of encrusted materials; brush scrubbing with detergent cleaning solution and a rinse in potable water. Disposable gloves were worn during collection of samples. Gloves were replaced after each sample was collected, to prevent cross contamination.

Decontamination of sampling equipment was completed in accordance with the recommendations of the Australian Standard 4482.1 (2005) Decontamination of sampling equipment procedure.

12.5 Summary of Laboratory Analysis for Soil

All analyses were completed by NATA registered laboratories; the primary laboratory was Eurofins | mgt. Inter-laboratory QC analyses were conducted by Eurofins | mgt and ALS Laboratory Group. Soil samples were analysed individually as follows:

TABLE 13 - ANALYSIS OF SOIL SAMPLES

Eurofins | mgt Name	Analyses	Number of samples
Eurofins | mgt Suite - B4A	TRH/BTEX/PAH/Phenols	6
Eurofins | mgt - M12	As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mo, Se, Ag, Sn	196 DUPLICATE 1, DUPLICATE 2, DUPLICATE 4, DUPLICATE 5, DUPLICATE 6, DUPLICATE 7, DUPLICATE 8 SPLIT 1, SPLIT 2, SPLIT 3, SPLIT 4, SPLIT 5, SPLIT 6, SPLIT 7, SPLIT 8 RINSATE
Eurofins | mgt Suite B7	TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg	6
Vic EPA IWRG 621 (Solids) – R1	TRH/PAH/Phenols/OCP/PCB/VOC/Vinyl Chloride/Metals (As, Cd, Cr, Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se, Zn)/Cr6+/CN/Total Fluoride/pH	4
NEPM Screen for Soil Classification – R21	%Fe/CEC/pH(CaCl2)/TOC/% Clay Content	2
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding Methyl Mercury/PBDE - R20	PAHs(as BaP TEQ)/ Total PAHs/ Phenol/ Pentachlorophenol/ 2-Methylphenol(o-cresol)/ 3&4-Methylphenol(m+p-cresol)/ OCP(DDT, DDE, DDD, Aldrin, Dieldrin, Chlordane, Endosulfan, Endrin, Heptachlor, HCB, Methoxychlor, Mirex, Toxaphene)/ Acid Herbicides (2.4.5-T, 2.4-D, MCPA, MCPB, Mecoprop, Picloram)/ Atrazine/ Chlorpyrifos/ Bifenthrin/ PCBs/ Metals (As, Be, B, Cd, Co, Cr, Cu, Pb, Hg, Mn, Ni, Se, Zn)/ Cr6+/ CN Free	2
Other analytes	Asbestos Absence /Presence	35
	TRH C6-C9	TRIP

Note:

For details of the samples analysed please refer to the Laboratory Summary in Appendix F.

12.6 Subsurface Conditions

Based on the field observations made during the assessment and shown on the borehole logs included in Appendix I, the subsurface conditions at the site are summarised as follows:

TABLE 14 – GENERALISED SUBSURFACE PROFILE

Depth (m)	Soil Description	Comments
0.00 – 3.00	FILL, sandy CLAY/sandy CLAY/silty SAND, crushed rock, bricks, landfill rubbish, plastic , glass pieces, brown/grey/orange, moist, medium dense/stiff	Landfill odour was detected at number of locations generally below 1.0m depth in the fill horizon
0.50-3.0m	Silty SAND/clayey SAND, brown moist, medium dense	No odour was detected in the natural horizon

12.7 Soil Vapour Survey

Each soil sample was screened in the field for the presence of volatile organic vapours, such as petroleum vapours, using a calibrated portable photo ionisation detector (PID). Soil vapour results were generally indicative of non-contaminated conditions to generally indicative of low-level volatile organic contamination (<detectable limits) to low readings but higher than ambient indicating low-level volatile organic contamination. PID data is provided in Appendix I borehole logs. A guide to interpreting PID readings is provided in Table 15 below (Refer to Appendix K for Equipment Calibration Records). For field PID range in each location refer to Appendix I borehole logs.

TABLE 15 – INTERPRETATION OF PID READINGS

PID Reading	Interpretative Guide
< 15	Generally indicative of non-contaminated conditions (by measurable species)
15 – 100	Low readings but higher than ambient. In some cases, instrument response may be affected by moisture or naturally occurring soil vapours. Generally indicative of low-level volatile organic contamination.
100 – 500	Can generally be accepted as a reliable indicator of volatile organic contamination. Concentrations detected may be affected by weathering, distance from source or soil profile conditions.
> 500	Positive indication of volatile organic contamination. Higher values indicate fresh, volatile compounds in high concentrations.

12.8 Soil Assessment Results

The following screening was adopted in accordance with the:

- Guidelines for Issue of Certificates and Statements of Environmental Audit EPA Publication 759.3 (December 2015).
- Environmental Auditing (Contaminated Land) EPA Publication 860.1, August 2007.
- Guide to the investigation and sampling of sites with potentially contaminated soil, part 1: Non-volatile and semi-volatile compounds, AS 4482.1-2005.
- Guide to the sampling and investigation of potentially contaminated soil, part 2: Volatile substances, AS 4482.2-1999.

- Guidance on the design of sampling programs, sampling techniques and preservation and handling of samples.

Additionally asbestos absence/presence testing was undertaken as a part of this assessment, and following standards and methods were adopted by the Eurofins | mgt Laboratory:

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

The soil assessment results at the site for Environmental Due Diligence Assessment soil sampling were compared with adopted soil criteria and provided in Appendix H - Laboratory Data Presentation.

Summary of the site condition at the site and concentrations above the adopted criteria were detected as follows:

12.8.1 Heavy Metals

Level of heavy metals in all the soil samples analysed is less than the adopted criteria at the test locations tested at the site except for the following heavy metals.

Soil Assessment Results for Lead

The levels of Lead in the following samples were reported concentrations above the adopted criteria.

TABLE 16 - SAMPLES ABOVE ADOPTED CRITERIA – LEAD

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 HIL C (600 mg/kg)	26 @ 0.50M (detected 1000 mg/kg) 48 @ 3.00M (detected 7200 mg/kg)	FILL horizon	- 95% Chebyshev (Mean, Sd) UCL (236.2 mg/kg) [1] is less than the adopted criteria. - **The standard deviation is 485 mg/kg and is above the 50% of the adopted investigation level.** - **48 @ 3.00M is exceeding 250% of relevant Investigation level**

NOTE:

1. Population for the calculation of the Lead UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Arsenic

The levels of Arsenic in the following samples were reported concentrations above the adopted criteria. However the detected concentration was acceptable based on the Statistical Assessment.

TABLE 17 - SAMPLES ABOVE ADOPTED CRITERIA – ARSENIC

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 EIL Urban Residence/ Public Open Space (100 mg/kg)	48 @ 3.00M (detected 110 mg/kg) 59 @ 0.15M (detected 110 mg/kg)	FILL horizon	- 95% Chebyshev (Mean, Sd) UCL (10.22 mg/kg) [2] is less than the adopted criteria. - The standard deviation is 11 mg/kg and is less than the 50% of the adopted investigation level. - No single value exceeding 250% of relevant Investigation level

NOTE:

2. Population for the calculation of the Arsenic UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Cadmium

The levels of Cadmium in the following samples were reported concentrations above the adopted criteria. However the detected concentration was acceptable based on the Statistical Assessment.

TABLE 18 - SAMPLES ABOVE ADOPTED CRITERIA – CADMIUM

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
CSQG Residential/Parkland Use (10 mg/kg)	48 @ 3.00M (detected 14 mg/kg)	FILL horizon	- 95% Student's-t UCL (0.644 mg/kg) [3] is less than the adopted criteria. - The standard deviation is 0.98 mg/kg and is less than the 50% of the adopted investigation level. - No single value exceeding 250% of relevant Investigation level

NOTE:

3. Population for the calculation of the Cadmium UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Copper

The levels of Copper in the following samples were reported concentrations above the adopted criteria.

TABLE 19 - SAMPLES ABOVE ADOPTED CRITERIA – COPPER

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 EIL Urban Residence/ Public Open Space (220 mg/kg)	17 @ 0.50M (detected 360 mg/kg) 48 @ 3.00M (detected 170000 mg/kg)	FILL horizon	- **95% Chebyshev (Mean, Sd) UCL (4068 mg/kg) [4] is above the adopted criteria.** - **The standard deviation is 11332 mg/kg and is above the 50% of the adopted investigation level.** - **48 @ 3.00M is exceeding 250% of relevant Investigation level.**
NEPM 2013 HIL C (17000 mg/kg)	48 @ 3.00M (detected 170000 mg/kg)	FILL horizon	- **95% Chebyshev (Mean, Sd) UCL (4068 mg/kg) [4] is above the adopted criteria.** - **The standard deviation is 11332 mg/kg and is above the 50% of the adopted investigation level.** - **48 @ 3.00M is exceeding 250% of relevant Investigation level.**

NOTE:

4. Population for the calculation of the Copper UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Nickel

The levels of Nickel in the following samples were reported concentrations above the adopted criteria. However the detected concentration was acceptable based on the Statistical Assessment.

TABLE 20 - SAMPLES ABOVE ADOPTED CRITERIA – NICKEL

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 EIL Urban Residence/ Public Open Space (270 mg/kg)	48 @ 3.00M (detected 300 mg/kg)	FILL horizon	- 95% Chebyshev (Mean, Sd) UCL (18.68 mg/kg) [5] is less than the adopted criteria. - The standard deviation is 21 mg/kg and is less than the 50% of the adopted investigation level. - No single value exceeding 250% of relevant Investigation level

NOTE:

5. Population for the calculation of the Nickel UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Tin

The levels of Tin in the following samples are reported concentrations above the adopted criteria.

TABLE 21 - SAMPLES ABOVE ADOPTED CRITERIA – TIN

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
ANZECC B Levels 1992 (50 mg/kg)	25 @ 0.50M (detected 270 mg/kg) 40 @ 3.00M (detected 51 mg/kg) 46 @ 1.00M (detected 500 mg/kg) 48 @ 2.00M (detected 99 mg/kg) 48 @ 3.00M (detected 790 mg/kg) 54 @ 3.00M (detected 140 mg/kg) 55 @ 2.50M (detected 120 mg/kg) 56 @ 3.00M (detected 150 mg/kg) 57 @ 1.00M (detected 340 mg/kg) 65 @ 1.00M (detected 73 mg/kg) DUPLICATE 6 (detected 320 mg/kg) SPLIT 6 (detected 213 mg/kg)	FILL horizon	- 95% Chebyshev (Mean, Sd) UCL (47.1 mg/kg) [6] is less than the adopted criteria. - **The standard deviation is 75 mg/kg and is above the 50% of the adopted investigation level.** - **25 @ 0.50M, 46 @ 1.00M, 48 @ 3.00M, 54 @ 3.00M, 56 @ 3.00M, 57 @ 1.00M, DUPLICATE 6 and SPLIT 6 are exceeding 250% of relevant Investigation level.**

NOTE:

6. Population for the calculation of the Tin UCLs and standard deviation is 217 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

Soil Assessment Results for Zinc

The levels of Zinc in the following samples are reported concentrations above the adopted criteria.

TABLE 22 - SAMPLES ABOVE ADOPTED CRITERIA – ZINC

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 EIL Urban Residence/ Public Open Space (730 mg/kg)	25 @ 0.50M (detected 1300 mg/kg) 48 @ 3.00M (detected 120000 mg/kg) 49 @ 0.15M (detected 6100 mg/kg) 49 @ 0.50M (detected 960 mg/kg) 77 @ 3.00M (detected 1900 mg/kg)	FILL horizon	- **95% Chebyshev (Mean, Sd) UCL (2994 mg/kg) [7] is above the adopted criteria.** - **The standard deviation is 8003 mg/kg and is above the 50% of the adopted investigation level.** - **48 @ 3.00M, 49 @ 0.15M and 77 @ 3.00M are exceeding 250% of relevant Investigation level.**
NEPM 2013 HIL C (30000 mg/kg)	48 @ 3.00M (detected 120000 mg/kg)	FILL horizon	- 95% Chebyshev (Mean, Sd) UCL (2994 mg/kg) [7] is less than the adopted criteria. - The standard deviation is 8003 mg/kg and is less than the 50% of the adopted investigation level. - **48 @ 3.00M is exceeding 250% of relevant Investigation level.**

NOTE:

7. Population for the calculation of the Zinc UCLs and standard deviation is 225 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

12.8.2 PAH (Total)

The level of PAHs in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.3 Benzo (a) Pyrene TEQ (Upper bound)

The level of Benzo (a) pyrene TEQ (Upper bound) in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.4 Benzo (a) Pyrene

The level of Benzo (a) pyrene in the following sample is reported concentrations above the adopted criteria. However the detected concentration was acceptable based on the Statistical Assessment.

TABLE 23 - SAMPLES ABOVE ADOPTED CRITERIA – BENZO (A) PYRENE

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 ESLs for Urban Residential, Coarse Soil (0.7 mg/kg)	47 @ 1.50M (detected 0.9 mg/kg) 68 @ 1.50M (detected 1.3 mg/kg)	FILL horizon	- 95% Student's-t UCL (0.66 mg/kg) [8] is less than the adopted criteria. - The standard deviation is 0.29 mg/kg and is less than the 50% of the adopted investigation level. - No single value exceeding 250% of relevant Investigation level

NOTE:

8. Population for the calculation of the Benzo (a) pyrene UCLs and standard deviation is 17 Samples for FILL Horizon (Refer to Appendix H– UCL Calculation)

12.8.5 Naphthalene

The level of Naphthalene in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.6 BTEX/MAH

The level of BTEX/MAH in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.7 Organochlorine Pesticides

The level of Organochlorine Pesticides analysed is less than the adopted criteria at the test locations tested.

12.8.8 Cyanide (Free)

The level of Cyanide (Free) analysed is lower than the detection limits at the test locations tested.

12.8.9 TRH C6-C10 less BTEX (F1) Fraction

The level of TRH C6-C10 less BTEX (F1) analysed is less than the adopted criteria at the test locations tested.

12.8.10 TRH C10-C16 Fraction

The level of TRH C10-C16 in following soil samples analysed is less than the adopted criteria at the test locations tested.

12.8.11 TRH >C10-C16 less Naphthalene (F2) Fraction

The level of TRH >C10-C16 less Naphthalene (F2) in following soil sample analysed is less than the adopted criteria at the test locations tested.

12.8.12 TRH >C34 – C40 Fraction

The levels of TRH > C34 – C40 fraction in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.13 TRH >C16-C34 (F3) Fraction

The levels of TRH >C16-C34 fraction in the following sample is reported concentrations above the adopted criteria.

TABLE 24 - SAMPLES ABOVE ADOPTED CRITERIA – TRH >C16-C34

Adopted criteria	Samples above adopted criteria	Soil horizon	Statistical Assessment
NEPM 2013 ESLs for Urban Residential, Coarse Soil (300 mg/kg)	47 @ 1.50M (detected 840 mg/kg) 54 @ 2.50M (detected 970 mg/kg) 62 @ 1.50M (detected 370 mg/kg) 63 @ 1.50M (detected 360 mg/kg)	FILL horizon	- **95% Chebyshev (Mean, Sd) UCL (570.5 mg/kg) [9] is above the adopted criteria.** - **The standard deviation is 297 mg/kg and is above the 50% of the adopted investigation level.** - **47 @ 1.50M and 54 @ 2.50M are exceeding 250% of relevant Investigation level**

NOTE:

9. Population for the calculation of the TRH >C16-C34 UCLs and standard deviation is 15 Samples for FILL Horizon (Refer to Appendix H – UCL Calculation)

12.8.14 Polychlorinated Biphenyls (Total PCB)

The level of Total PCB in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.15 Phenol

The level of phenol in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.16 Fluoride

The level of Fluoride in all the soil samples at the site analysed is less than the adopted criteria at the test locations tested.

12.8.17 Units of pH

The pH unit in the soil samples representative of the at the site range 7.2 – 8.8 pH units and three (3) samples were in alkaline range are exceeding the ANZECC/NHMRC (background A Level) environmental soil quality guidelines of 6 to 8 pH units.

The pH unit in the ten (10) soil samples tested during soil sampling program at the site and range as follows:

- No samples in acidic range;

- Seven (7) samples in 6 to 8 pH range; and
- Three (3) samples in alkaline range (8.2 – 8.8 pH units).
- Fill horizon pH range 7.3 – 8.8 pH units.
- Natural soil pH ranges 7.2 pH units.

Soil samples representative of the site range 7.2 – 8.8 pH units (Alkaline) is exceeding the adopted ANZECC/NHMRC (background A Level) environmental soil quality guidelines of 6 to 8 pH units for screening of maintenance of ecosystems and production of food, flora and fibre. This may have slight impact on the sensitive plants.

Samples are less than the adopted Australian Standard 2159-2009 Piling Design and Installation guidelines of pH (>5.5 pH units) for screening of building and structures.

12.8.18 Moisture

The moisture ranges from 1.1 % – 35% during soil sampling. This demonstrates that moist soils were generally moist and some wet soil was also encountered at some test locations during the time of investigation.

12.8.19 ASLP Results

Following samples reported soil concentrations above the adopted criteria:

Two (2) samples reported concentration above the adopted NEPM HIL C (2013) criteria for Lead.

Two (2) samples reported concentration above adopted NEPM 2013 EIL Urban Residence/Public Open Space Criteria for Arsenic.

One (1) sample reported concentration above adopted CSQG Residential/Parkland Use Criteria for Cadmium.

Two (2) samples reported concentration above adopted NEPM 2013 EIL Urban Residence/Public Open Space Criteria and One (1) sample reported concentration above the adopted NEPM HIL C (2013) criteria for Copper

One (1) sample reported concentration above adopted NEPM 2013 EIL Urban Residence/Public Open Space Criteria for Nickel.

Twelve (12) samples reported concentration above adopted ANZECC B Levels 1992 Criteria for Tin.

Five (5) samples reported concentration above adopted NEPM 2013 EIL Urban Residence/Public Open Space Criteria and One (1) sample reported concentration above the adopted NEPM HIL C (2013) criteria for Zinc.

Two (2) samples reported concentration above the adopted NEPM 2013 ESLs for Urban Residential, Coarse Soil criteria for Benzo (a) pyrene.

Additional tests were undertaken on the soil samples detected with concentrations above the adopted criteria and the details are as follows:

Australian Standard Leaching Protocol (ASLP) testing was undertaken for the contaminants of concern, in particular Lead, Arsenic, Cadmium, Copper, Nickel, Tin, Zinc and Benzo (a) pyrene. Tests results of Lead, Arsenic, Cadmium, Copper, Nickel, Tin, Zinc and Benzo (a) pyrene were less than the adopted IWRG 621 cleanfill criteria.

TABLE 25 - ASLP RESULTS

Sample Numbers	Lead in mg/L	Arsenic in mg/L	Cadmium in mg/L	Copper in mg/L	Nickel in mg/L	Tin in mg/L	Zinc in mg/L	Benzo(a) pyrene in mg/L
IWRG 621 Table 2 Soil Hazard Categorisation Thresholds – ASLP 1 (mg/L)	**1**	**0.7**	**0.2**	**200**	**2**	**-**	**300**	**1**
61 AT 1.00M	0.17	0.02	<0.005	0.03	0.09	<0.5	2.1	-
68 AT 0.50M	-	-	-	-	-	-	-	<1

(Refer to Appendix H – ASLP Results.)

12.8.20 Asbestos

Asbestos absence/presence testing was undertaken in the following soil samples as a part of this report and the results are as follows for the site:

TABLE 26 - ASBESTOS DETECTION RESULTS

Eurofins | mgt Report Number: 535906-AID and 552701-AID

Test Location Number	Eurofins | mgt Lab Number	Asbestos Detection Results
1 AT 0.15M	17-Fe28347	No asbestos detected. Organic fibre detected. No respirable fibres detected.
3 AT 0.15M	17-Fe28355	No asbestos detected. Organic fibre detected. No respirable fibres detected.
6 AT 0.15M	17-Fe28360	No asbestos detected. Organic fibre detected. No respirable fibres detected.
7 AT 0.15M	17-Fe28362	No asbestos detected. Organic fibre detected. No respirable fibres detected.
73 @ 0.15M	17-Jl02188	No asbestos detected. Organic fibre detected. No respirable fibres detected.
68 @ 0.15M	17-Jl02193	No asbestos detected. Organic fibre detected. No respirable fibres detected.
62 @ 0.15M	17-Jl02197	No asbestos detected. Organic fibre detected. No respirable fibres detected.
54 @ 0.15M	17-Jl02200	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Test Location Number	Eurofins | mgt Lab Number	Asbestos Detection Results
74 @ 0.15M	17-Jl02206	No asbestos detected. Organic fibre detected. No respirable fibres detected.
63 @ 2.00M	17-Jl02213	No asbestos detected. Organic fibre detected. No respirable fibres detected.
55 @ 2.00M	17-Jl02216	No asbestos detected. Organic fibre detected. No respirable fibres detected.
47 @ 2.00M	17-Jl02221	No asbestos detected. Organic fibre detected. No respirable fibres detected.
46 @ 2.00M	17-Jl02225	No asbestos detected. Organic fibre detected. No respirable fibres detected.
38 @ 1.50M	17-Jl02229	No asbestos detected. Organic fibre detected. No respirable fibres detected.
31 @ 2.00M	17-Jl02232	No asbestos detected. Organic fibre detected. No respirable fibres detected.
30 @ 2.00M	17-Jl02236	No asbestos detected. Organic fibre detected. No respirable fibres detected.
39 @ 2.00M	17-Jl02242	**Chrysotile asbestos detected in fibre cement fragments.** **Approximate raw weight of asbestos containing material = 0.95g** **Organic fibre detected.**
32 @ 2.00M	17-Jl02246	No asbestos detected. Organic fibre detected. No respirable fibres detected.
33 @ 2.00M	17-Jl02251	No asbestos detected. Organic fibre detected. No respirable fibres detected.
61 @ 0.15M	17-Jl02258	No asbestos detected. Organic fibre detected. No respirable fibres detected.
53 @ 0.15M	17-Jl02261	No asbestos detected. Organic fibre detected. No respirable fibres detected.
45 @ 0.15M	17-Jl02264	No asbestos detected. Organic fibre detected. No respirable fibres detected.
67 @ 0.50M	17-Jl02269	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Test Location Number	Eurofins | mgt Lab Number	Asbestos Detection Results
67 @ 2.00M	17-Jl02270	No asbestos detected. Organic fibre detected. No respirable fibres detected.
52 @ 1.00M	17-Jl02276	No asbestos detected. Organic fibre detected. No respirable fibres detected.
44 @ 0.15M	17-Jl02279	No asbestos detected. Organic fibre detected. No respirable fibres detected.
44 @ 2.00M	17-Jl02280	No asbestos detected. Organic fibre detected. No respirable fibres detected.
57 @ 0.15M	17-Jl02281	No asbestos detected. Organic fibre detected. No respirable fibres detected.
65 @ 0.15M	17-Jl02285	No asbestos detected. Organic fibre detected. No respirable fibres detected.
65 @ 2.50M	17-Jl02288	No asbestos detected. Organic fibre detected. No respirable fibres detected.
75 @ 0.15M	17-Jl02291	No asbestos detected. Organic fibre detected. No respirable fibres detected.
69 @ 0.15M	17-Jl02296	No asbestos detected. Organic fibre detected. No respirable fibres detected.
64 @ 0.15M	17-Jl02302	No asbestos detected. Organic fibre detected. No respirable fibres detected.
56 @ 0.15M	17-Jl02306	No asbestos detected. Organic fibre detected. No respirable fibres detected.
48 @ 0.15M	17-Jl02310	No asbestos detected. Organic fibre detected. No respirable fibres detected.
43 @ 0.15M	17-Jl02318	No asbestos detected. Organic fibre detected. No respirable fibres detected.
51 @ 0.15M	17-Jl02322	No asbestos detected. Organic fibre detected. No respirable fibres detected.
59 @ 0.15M	17-Jl02326	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Test Location Number	Eurofins | mgt Lab Number	Asbestos Detection Results
70 @ 0.50M	17-Jl02329	No asbestos detected. Organic fibre detected. No respirable fibres detected.

12.9 Site Condition: Soil

The soil condition of the site in accordance with the relevant SEPP protected beneficial uses of the land for the site are as follows:

12.9.1 Human health

The following samples reported concentration above the adopted HIL "C" - public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths soil criteria:

Lead:

- 26 @ 0.50M and 48 @ 3.00M in the FILL horizon.

Copper:

- 48 @ 3.00M in the FILL horizon.

Zinc:

- 48 @ 3.00M in the FILL horizon.

The soil analysis demonstrated concentration of Lead, Copper and Zinc were above the NEPM HIL "C" - public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths soil criteria and all other potential contaminants were less than the NEPM HIL "C" - public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths soil criteria at the site.

12.9.2 Maintenance of Ecosystems and Production of Food, Flora and Fibre

The soil analysis demonstrated that the concentration of potential contaminants was below the adopted US EPA Ecological Soil Screening Levels (ECO-SSLs), Canadian Environmental Quality guidelines (2007) for Residential/Parkland Land Use and EPA Publication 621 (Upper Limit for Fill Material), oil criteria's for all the analytes tested at the site.

12.9.2.1 NEPM Ecological Investigation Levels

The following samples reported concentration above the adopted EIL Urban Residential/ Public Open Space NEPM 2013 criteria.

Copper:

- 17 @ 0.50M and 48 @ 3.00M in FILL horizon.

Zinc:

- 25 @ 0.50M, 48 @ 3.00M, 49 @ 0.15M, 49 @ 0.50M and 77 @ 3.00M in FILL horizon.

12.9.2.2 NEPM Ecological Screening Levels

The following samples reported concentration above the adopted ESLs for Urban Residential, Coarse Soil NEPM 2013 criteria.

TRH >C16-C34:

- 47 @ 1.50M, 54 @ 2.50M, 62 @ 1.50M and 63 @ 1.50M in FILL horizon.

12.9.2.3 ANZECC B Levels 1992

The following samples reported concentration above the adopted ANZECC B Levels 1992 criteria.

Tin:

- 25 @ 0.50M, 40 @ 3.00M, 46 @ 1.00M, 48 @ 2.00M, 48 @ 3.00M, 54 @ 3.00M, 55 @ 2.50M, 56 @ 3.00M, 57 @ 1.00M, 65 @ 1.00M, DUPLICATE 6 and SPLIT 6 in FILL horizon.

12.9.3 Buildings and structures

Test results were less than the adopted Australian Standard 2159-2009 Piling Design and Installation guidelines of pH (>5.5 pH units) for screening of building and structures.

12.9.4 Aesthetics

Chrysotile asbestos (Raw weight of asbestos containing material 0.95g in a fibre cement fragment) was detected at location 39 AT 2.00M.

Putrescible Odour was reported at the following sampling locations 13, 14, 15, 29, 30, 31, 32, 33, 34, 37, 38, 39, 40, 41, 44, 45, 46, 47, 49, 52, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 65, 67, 68, 69, 72, 73, 74, 75 and 76.

TABLE 27 – SUMMARY OF SITE CONDITION

Beneficial Uses	Adopted Criteria	Analytes And Limit For Adopted Criteria	Samples Above Adopted Criteria	Soil Horizon	Depth (m)
Human Health	NEPM 2013 HIL C	Lead (600 mg/kg)	26 @ 0.50M (detected 1000 mg/kg)	FILL	0.50
			48 @ 3.00M (detected 7200 mg/kg)	FILL	3.00
		Copper (17000 mg/kg)	48 @ 3.00M (detected 170000 mg/kg)	FILL	3.00
		Zinc (30000 mg/kg)	48 @ 3.00M (detected 120000 mg/kg)	FILL	3.00
Maintenance of Ecosystems	ANZECC B Levels 1992	Tin (50 mg/kg)	25 @ 0.50M (detected 270 mg/kg)	FILL	0.50
			40 @ 3.00M (detected 51 mg/kg)	FILL	3.00
			46 @ 1.00M (detected 500 mg/kg)	FILL	1.00
			48 @ 2.00M (detected 99 mg/kg)	FILL	2.00

Beneficial Uses	Adopted Criteria	Analytes And Limit For Adopted Criteria	Samples Above Adopted Criteria	Soil Horizon	Depth (m)
			48 @ 3.00M (detected 790 mg/kg)	FILL	3.00
			54 @ 3.00M (detected 140 mg/kg)	FILL	3.00
			55 @ 2.50M (detected 120 mg/kg)	FILL	2.50
			56 @ 3.00M (detected 150 mg/kg)	FILL	3.00
			57 @ 1.00M (detected 340 mg/kg)	FILL	1.00
			65 @ 1.00M (detected 73 mg/kg)	FILL	1.00
	EIL Urban Residential/ Public Open Space NEPM 2013	Copper (220 mg/kg)	17 @ 0.50M (detected 360 mg/kg)	FILL	0.50
			48 @ 3.00M (detected 170000 mg/kg)	FILL	3.00
		Zinc (730 mg/kg)	25 @ 0.50M (detected 1300 mg/kg)	FILL	0.50
			48 @ 3.00M (detected 120000 mg/kg)	FILL	3.00
			49 @ 0.15M (detected 6100 mg/kg)	FILL	0.15
			49 @ 0.50M (detected 960 mg/kg)	FILL	0.50
			77 @ 3.00M (detected 1900 mg/kg)	FILL	3.00
	NEPM 2013 ESLs for Urban Residential, Coarse Soil (300 mg/kg)	TRH >C16-C34 (300 mg/kg)	47 @ 1.50M (detected 840 mg/kg)	FILL	1.50
			54 @ 2.50M (detected 970 mg/kg)	FILL	2.50
			62 @ 1.50M (detected 370 mg/kg)	FILL	1.50
			63 @ 1.50M (detected 360 mg/kg)	FILL	1.50

13 QUALITY ASSURANCE (QA) AND QUALITY CONTROL (QC)

Quality Assurance is interpreted to mean those systems, procedures and documents which facilitate management, correct execution and recording of evidence and completion of all the tasks necessary to generate the information and data necessary to characterise the site contamination and satisfy other project objectives. Quality Control is the specific tests and checks which verify and demonstrate that data generated is reliable and reproducible.

13.1 QA Programs

The basic elements of quality assurance adopted as part of this project included:

- Use of written procedures to control the execution of the work.
- Review of the work plan and results, in each stage of the study by the auditor.
- Engagement of experienced environmental specialist in fieldwork.
- Engagement of a laboratory accredited by NATA for the tests required.

13.2 QC Testing Elements

The elements of the quality control testing included the following field based program:

- Blind Replicate
- Split Sample
- Rinsate Blank
- Trip Blanks

Additionally, the laboratory conducts NATA requisite tests including:

- Duplicates
- Spikes
- Method Blanks

13.3 Quality Control Samples

Soil and water samples – including field Quality Control (QC) duplicate samples – were submitted to Eurofins | mgt. Inter-laboratory split sample (field QC sample) was submitted to a secondary laboratory ALS Laboratory Group. Eurofins | mgt, Eurofins | mgt and ALS laboratories are accredited by the National Association of Testing Authorities (NATA) for the chemical analysis conducted.

Acceptance Criteria for Quality Control Sample (Blind Replicate and Split Samples).

Relative Percent Difference from the two samples was calculated in the following way:

(Result No1 – Result No 2) / (Mean result) x 100

Typical 30%–50% of mean concentration of analyte; this variation can be expected to be higher for organic analysis than for inorganics, and for low concentration of analytes.

In accordance with Australian Standard 4482.1- 2005 acceptance criteria for quality control samples are as follows:

Blind Replicate sample – required 1 for every 20 samples collected and required mean concentration of analyte is 30%-50%.

Split sample – required 1 for every 20 samples collected and required mean concentration of analyte is 30%-50% determined by both laboratories.

Rinsate blank – required 1 per piece of equipment per day and the significance of the rinsate blank analysis will need to be evaluated with respect to the actual field samples.

As a part of field Quality Control (QC) sampling the following number of samples was collected: (Refer to Appendix H - Quality Control Samples Results – Soil)

TABLE 28– QUALITY CONTROL SAMPLES

Number of samples Retrieved	Number of samples analysed	Description	Number of Duplicate Samples Retrieved	Number Split samples Retrieved	Rinsate sample Retrieved
543	278	During Soil Sampling on 27 February 2017 and 3 July 2017	8	8	1

Field Quality Control (QC) sample collection rate met the Australian Standard 4482.1-2005 acceptance criteria.

13.3.1 Blind Replicate Sample – Duplicate

Duplicate samples were collected from the same point and removed from the ground in a single action into one individual sample and one duplicate sample, and submitted to the same laboratory as two individual samples. The relative percent difference exceeding 30%–50% of mean concentration of analyte was calculated and the details are as shown in Refer to Appendix H Quality Control Samples Results. Additionally number of samples were split by the laboratory for duplicate analysis since the initial duplicate analysis did not meet the required number of duplicate sample analysis additional samples were requested to be split by the laboratory for analysis.

The following blind replicate samples were collected from the subject site during the soil sampling works to identify the variation in analyte concentration and repeatability of the laboratory analysis.

TABLE 29 – DUPLICATE SAMPLES RELATIVE PERCENT DIFFERENCE – DURING SOIL SAMPLING WORKS

Date Sampled	Bore Location and depth	First Individual Sample Sample ID	Duplicate of the First Individual Sample Sample ID	Relative Percent Difference Exceeding 30%-50% of Mean Concentration Of Analyte
3/07/2017	54 @ 1.00M DUPLICATE 1	M17-Jl02202	M17-Jl02205	< 30%–50% of mean concentration for all the analytes tested except for Mercury (66.67%), Silver (90.91%) and Tin (93.88%)
3/07/2017	55 @ 0.50M DUPLICATE 2	M17-Jl02215	M17-Jl02238	< 30%–50% of mean concentration for all the analytes tested except for Lead (146.7%), Copper (87%) and Zinc (55.32%)

Date Sampled	Bore Location and depth	First Individual Sample Sample ID	Duplicate of the First Individual Sample Sample ID	Relative Percent Difference Exceeding 30%-50% of Mean Concentration Of Analyte
3/07/2017	52 @ 0.50M DUPLICATE 4	M17-Jl02275	M17-Jl02267	< 30%–50% of mean concentration for all the analytes tested except for Lead (55.56%) and Chromium (61.31%)
3/07/2017	56 @ 2.00M DUPLICATE 5	M17-Jl02308	M17-Jl02315	< 30%–50% of mean concentration for all the analytes tested except for Lead (55.57%) and Copper (97.67%)
3/07/2017	57 @ 1.00M DUPLICATE 6	M17-Jl02283	M17-Jl02316	< 30%–50% of mean concentration for all the analytes tested except for Arsenic (55.56%), Mercury (142.9%), Silver (77.94%), Zinc (94.34%) and Copper (65.75%)
3/07/2017	51 @ 1.50M DUPLICATE 7	M17-Jl02323	M17-Jl02317	< 30%–50% of mean concentration for all the analytes tested except for Lead (54.79%) and Copper (52.10%)
3/07/2017	58 @ 0.50M DUPLICATE 8	M17-Jl02367	M17-Jl02346	< 30%–50% of mean concentration for all the analytes tested except for Chromium (51.12%)

13.3.2 Split Samples

Split samples were removed from the ground in a single action into one primary laboratory sample and one secondary laboratory sample, and submitted to respective laboratories for the analysis of the same analytes. The relative percent difference exceeding 30%–50% of mean concentration of analyte was calculated and the details are as shown in Refer to Appendix H - Quality Control Samples Results.

The following blind replicate samples were collected from the subject site during the soil sampling works to identify the variation in analyte concentration and repeatability of the laboratory analysis and the details are as follows:

TABLE 30 – SPLIT SAMPLES RELATIVE PERCENT DIFFERENCE - DURING SOIL SAMPLING WORKS

Date Sampled	Bore Location and depth	Primary Laboratory Eurofins - MGT Sample ID	Secondary Laboratory ALS Sample ID	Relative Percent Difference Exceeding 30%–50% of Mean Concentration of Analyte
3/07/2017	54 @ 1.00M SPLIT 1	M17-Jl02202	EM1708657001	< 30%–50% of mean concentration for all the analytes tested except for Chromium (62.07%), Copper (72.94%), Mercury (125%), Nickel (60.87%) and Tin (101.9%)
3/07/2017	55 @ 0.50M SPLIT 2	M17-Jl02215	EM1708657002	< 30%–50% of mean concentration for all the analytes tested except for Lead (130.2%), Chromium (66.67%), Copper (78.26%), Nickel (150%) and Zinc (124.32%)

Date Sampled	Bore Location and depth	Primary Laboratory Eurofins - MGT Sample ID	Secondary Laboratory ALS Sample ID	Relative Percent Difference Exceeding 30%– 50% of Mean Concentration of Analyte
3/07/2017	53 @ 1.00M SPLIT 3	M17-Jl02263	EM1708657003	< 30%–50% of mean concentration for all the analytes tested except for Silver (131.3%) and Zinc (55.97%)
3/07/2017	52 @ 0.50M SPLIT 4	M17-Jl02275	EM1708657004	< 30%–50% of mean concentration for all the analytes tested except for Chromium (67.94%)
3/07/2017	56 @ 2.00M SPLIT 5	M17-Jl02308	EM1708657005	< 30%–50% of mean concentration for all the analytes tested except for Lead (105%), Nickel (75%) and Zinc (114.96%)
3/07/2017	57 @ 1.00M SPLIT 6	M17-Jl02283	EM1708657006	< 30%–50% of mean concentration for all the analytes tested except for Lead (79.07%), Arsenic (96.77%), Mercury (133.3%) and Silver (75.86%)
3/07/2017	51 @ 1.50M SPLIT 7	M17-Jl02323	EM1708657007	< 30%–50% of mean concentration for all the analytes tested except for Chromium (66.67%), Nickel (54.55%) and Zinc (71.60%)
3/07/2017	58 @ 0.50M SPLIT 8	M17-Jl02367	EM1708657008	< 30%–50% of mean concentration for all the analytes tested except for Lead (61.02%)

13.3.3 Rinsate Blanks

Final rinse solution (rinsate blank) sample named as Rinsate was collected during the decontamination process of the trowel which was used for collecting soil samples during the soil sampling works and the details are as shown in Refer to Appendix H - Quality Control Samples Results is as follows:

TABLE 31 – RINSATE SAMPLE RESULTS- DURING SOIL SAMPLING WORKS

Date Sampled	Sample ID	Test Results exceedance
3/07/2017	RINSATE M17-Jl02564	< LOR for all the analytes tested

13.3.4 Trip Blank

These are used to monitor potential contamination during transport and storage. Trip blanks are sent from the laboratory with empty containers and remain with the other samples throughout sampling. A blank is a portion of deionised water that is carried through all or part of the sampling process. The volume used for the blank sample was the same as for the samples. The following blank samples were collected from the subject site to identify any cross contamination during transport. The concentration of analytes was calculated and the details are as shown in Refer to Appendix H - Quality Control Samples Results and the summary of Trip Blank Results is as follows:

TABLE 32 – TRIP BLANK RESULTS - DURING SOIL SAMPLING WORKS

Date Sampled	Trip Blank Sample ID	Analytes Concentration
3/07/2017	TRIP M17-Jl02565	< LOR for all the analytes tested

Trip blank sample results for soil sampling program were within acceptable limit for all the analytes.

13.4 Field QA/QC Procedure Review

13.4.1 Chain-Of-Custody Forms

All the samples collected during the time of investigation were properly handled according to AS 4482.1-2005. Handling and transportation of all the samples from the site to the Laboratory was accomplished with Chain-of-Custody procedures. The chain of custody forms are presented in Appendix G. Sample integrity was maintained and samples were properly stored in sealed sample containers. All samples collected during the time of investigation were kept in chilled eskies and forwarded to the laboratory for analysis.

13.4.2 Occupational Health and Safety

All those who were engaged during the time of investigation were made aware of the likely contaminants, the type of operation to be carried out on-site, and the type of equipment to be used. All protective equipment such as gloves, first aid equipment, boots etc. were used properly, and all the disposable items used for sampling were collected in a bag and disposed of off-site properly.

13.4.3 Field QC Results (duplicates and split samples)

In summary, *Geoaquitards Environmental* considers that the field QC results are acceptable for the purposes of this investigation. Where RPDs were outside the acceptable range, sampling procedures, laboratory analytical methods and laboratory results were investigated. A review of analytical results with RPD exceedances indicates that all the unacceptable results can be explained via one or more of the following points and are not considered to compromise the integrity of the analytical results.

- Variations can be expected to be higher for organic compared with inorganic analyses and for low analytes concentrations, which will exaggerate the percentage differences with respect to small total concentration differences., Therefore, calculated RPD values outside the acceptable range are not considered to affect the integrity of the results as both results indicate the presence of impact.
- Reported concentrations are well below adopted criteria and therefore calculated RPD values outside the acceptable range are not considered to affect the integrity of the results as both results are well below the criteria.
- Difficulties associated with collecting a homogenous sample when sampling for volatile analytes such as BTEX / MAH and TPH (C6–C9) and semi-volatile analytes such as TPH (C10–C36), can cause variations in calculated RPD values.

- RPD values exceeding the acceptance criteria may be due to the nature of the associated heterogeneous material (FILL material) in the soil sample not forming a representative material of the blind replicate sample.

Blind replicate sample results were evaluated according to AS 4482.1-2005. The variation can be expected to be higher for organic analytes than for inorganic analytes and low concentration of analytes. Soil sample - test results demonstrated RPD values is detailed in section 21.3. The test results were within the acceptance criteria.

13.4.4 Evaluation of Field Quality Control Results

Soil and Groundwater samples – including Field Quality Control (QC) duplicate samples – were submitted to Eurofins | mgt. Inter-laboratory split sample (Field QC triplicate sample) was submitted to a secondary laboratory ALS Laboratory Group. All samples were submitted to the laboratory within the holding times for analysis and the detection limits were within the acceptable limit of NATA requirements.

Eurofins | mgt and ALS laboratories are accredited by the National Association of Testing Authorities (NATA) for the chemical analysis conducted. Field QC results are presented in Appendix H. In summary, *Geoaquitards Environmental* considers that the Field QC results are acceptable for the purposes of this investigation.

13.5 Laboratory Quality Control Results

The following Quality Control Results provided in this section are used for laboratory Quality Purposes.

13.5.1 Analysis Blank

The component of the analytical signal, which is not derived from the sample but from the reagents and also from glassware, can be determined by processing solvents and reagents in exactly the same manner as for samples. If this is below the maximum acceptable method blank (established during the method validation), this contribution is subtracted from the gross analytical signal for each analysis before calculating the sample analyte concentration. The results are within the acceptance criteria for the analysis of blank samples (Ref: Appendix F Laboratory reports for analysis blank results).

13.5.2 Duplicate Analysis

This is the complete duplicate analysis of a sample from the process batch. The sample selected for duplicate analysis is the sample where the analyte concentration was easily measurable. The variation between duplicate analyses has been recorded by the laboratories and results are in their Quality Results (Ref: Appendix F, Laboratory reports for Duplicate results). The results are within the acceptance criteria for the analysis of Duplicate samples.

13.5.3 Laboratory Control Sample

These tests were performed on a standard material or control matrix fortified with analytes class. Recovery check portions were fortified at concentrations, which were easily quantified but within the range of concentrations expected for real samples. The results are within the acceptance criteria adopted by the respective laboratories for the analysis of Laboratory Control Samples. (Ref: Appendix F, Laboratory reports for Laboratory control sample results).

13.5.4 Matrix Spikes

Matrix Spikes tests were performed to monitor the performance of the analytical methods used, and to determine whether matrix interference exists. Matrix Spike Recovery is within the acceptance criteria adopted by the respective laboratories for the analysis of Laboratory Control Samples. (Ref: Appendix F, Laboratory reports for Matrix spikes results).

13.5.5 Surrogate Spikes

Surrogate spikes are known additions to each sample, blank and matrix spike or reference sample analysis. Surrogate Spikes Analysis results are within the acceptance criteria (Ref: Appendix F, Laboratory reports for surrogate spikes results).

In summary, the Laboratory Quality Control Results reveal a level of quality control equivalent to the accepted general standard of practice. The detection limits used in the laboratory program were appropriate to meet the investigation objectives.

13.6 Summary of QA / QC

In summary, the QA / QC test results reveal a level of quality control equivalent to the accepted general standard of practice and achieved overall completeness of QA / QC dataset to meet the required objective. The test results provided by Eurofins Mgt and ALS Environmental to meet the required objective and test procedures used in the laboratories were appropriate to meet the investigation objectives.

13.6.1 Summary of Uncertainties and Assumptions

- The sampling points provide a representation of the conditions within the vicinity of the sampling point.
- The number of sampling points provides statistically meaningful data.

14 RISKS TO THE BENEFICIAL USES OF LAND

The Environmental Due Diligence Assessment was undertaken to assess the suitability of the land for all potential land uses and the site must be assessed against the criteria established for any land uses (including the most sensitive). These land uses are as follows:

- parks and reserves;
- agriculture;
- sensitive use (high density);
- sensitive use (other – including medium and low density residential, child care centres, pre-schools or primary schools);
- recreational/open spaces;
- commercial; and
- industrial

In accordance with the Land SEPP the relevant beneficial uses of land to be protected under unrestricted use for the site is as follows:

14.1 Beneficial Uses of Land

In accordance with the Land SEPP (2002), the relevant beneficial uses of the land to be protected for unrestricted use are:

- Maintenance of Ecosystems(Modified and Highly Modified);
- Human Health;
- Building & Structures;
- Aesthetics; and
- Production of Food, Flora and Fibre.

The nature of the proposed development of the site is Residential Aged Care Facility.

A discussion on the beneficial uses and a summary of site-specific risks to the beneficial uses of land are outlined in Table 33.

TABLE 33 – BENEFICIAL USES OF LAND

Risks to Beneficial Uses of Land for Beneficial Uses to be Protected for Unrestricted Land Use	Summary of Soil Contamination Risks to Beneficial Uses of Land
Maintenance of Ecosystems: based on the above discussion, all of the samples are below the adopted criteria for the maintenance of ecosystems except for Copper, Zinc, TRH >C16-C34 and Tin; hence this beneficial use is considered precluded for unrestricted use.	Based on the reported results this beneficial use is considered to be precluded.
Human Health: based on the above discussion, all of the samples are below the adopted criteria for human health except for Lead, Copper and Zinc and this beneficial use is considered precluded for unrestricted use.	Based on the reported results this beneficial use is considered to be precluded.
Buildings and Structures: pH levels generally indicate a non-aggressive exposure setting. This beneficial use is therefore considered protected.	pH levels concentrations in soil indicate non-aggressive exposure settings for steel and concrete structures in accordance with AS2159-2009 Piling – Design and Installation. This is considered to be low risk to the beneficial use of buildings and structures. This beneficial use is therefore considered protected.
Aesthetics: Generally odours were reported at number of sampling locations. Strong putrescible odour detected was detected in some samples at landfill area locations.	Based on the field observation, this beneficial use is considered precluded for sensitive and recreational/open space use.
Production of Food, Flora and Fibre: concentration is above the adopted ecological criteria, and therefore this beneficial use is considered to be precluded for unrestricted use.	Based on the reported results this beneficial use is considered to be precluded.

A review of the condition of the land (at the time of the completion of the Environmental Due Diligence) with respect to these beneficial uses is presented below.

14.1.1 Maintenance of Ecosystems

Zinc at location 25 @ 0.50M, 48 @ 3.00M, 49 @ 0.15M, 49 @ 0.50M and 77 @ 3.00M and Copper at location 17 @ 0.50M and 48 @ 3.00M in FILL horizon reported concentration above the adopted EIL Urban Residential/ Public Open Space NEPM 2013 criteria.

TRH >C16-C34 at location 47 @ 1.50M, 54 @ 2.50M, 62 @ 1.50M and 63 @ 1.50M in FILL horizon reported concentration above the adopted NEPM 2013 ESLs for Urban Residential, Coarse Soil criteria.

Tin at location 25 @ 0.50M, 40 @ 3.00M, 46 @ 1.00M, 48 @ 2.00M, 48 @ 3.00M, 54 @ 3.00M, 55 @ 2.50M, 56 @ 3.00M, 57 @ 1.00M, 65 @ 1.00M, DUPLICATE 6 and SPLIT 6 in FILL horizon reported concentration above the adopted ANZECC B Levels 1992 criteria.

The site has been substantially modified and considered as highly modified ecosystems. The concentrations of chemicals remaining at the site are above the adopted EILs. As a result, the site will affect the maintenance of relevant ecosystems and the beneficial use – maintenance of ecosystems – is precluded.

14.1.2 Human Health

Lead at location 26 @ 0.50M and 48 @ 3.00M, Copper at location 48 @ 3.00M and Zinc at location 48 @ 3.00M in FILL horizon reported concentration above the adopted HIL "C" - public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths soil criteria.

Therefore the beneficial use – human health – is precluded. However the elevated concentration of copper and zinc is detected at 3.0m depth and lead is detected at 0.50m and at 3.0m and they are not leaching in to underlying soils and therefore it is considered they are less likely to impact current uses at the site.

14.1.3 Buildings and Structures

Based on soil pH analytical data and the concentrations reported by the laboratory the beneficial use – buildings and structures – is protected at the site under all land use scenarios (including the most sensitive use).

14.1.4 Aesthetics

Putrescible Odour was reported at the following sampling locations 13, 14, 15, 29, 30, 31, 32, 33, 34, 37, 38, 39, 40, 41, 44, 45, 46, 47, 49, 52, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 65, 67, 68, 69, 72, 73, 74, 75 and 76. However the odour was generally detected below 1.0m depth and therefore current users will not be impacted by the odour.

Chrysotile asbestos (Raw weight of asbestos containing material 0.95g in a fibre cement fragment) was detected at test location 39 AT 2.00M, however surface samples tested did not detect any asbestos containing material, and therefore it is considered current users of the site will not be impacted by this material, however if any excavation or digging works undertaken around this area (test location 39) then further investigation must be undertaken for asbestos.

14.1.5 Production of Food, Flora and Fibre

There were exceedances of the EILs or ESLs in samples representative of the final land condition. The concentrations of chemicals remaining at the site are above the adopted EILs. As a result, the site will adversely affect the production of food, flora and fibre and the beneficial use – Production of Food, Flora and Fibre – is precluded.

14.1.6 Summary of Risks to the Beneficial Uses of Land at the Site

Based on the soil assessment undertaken for the site to assess the suitability of the land for all potential land uses the site is in its current condition is considered precluded for unrestricted land use. However further works with the consultation of EPA must be undertaken for the consideration of any beneficial uses.

15 CONCLUSIONS

The analytical results for the soil samples retrieved during the Environmental Due Diligence are presented in Appendix F. The analytical results were compared with the criteria contained in the National Environment Protection Measure 2013.

Potential contamination issues identified in Environmental Due Diligence have been assessed for the site and the soil is in its current condition is considered precluded for unrestricted land use for all uses, however can be considered restricted land use with further consultation with EPA for any future development.

16 RECOMMENDATIONS

16.1 Assessing Planning Proposal near Landfills (Extract of Publication 1625)

"EPA has prepared a draft guideline for consultation on Assessing planning proposals near landfills (Publication 1625) to help councils, environmental auditors and others involved in the landfill planning process to assess development applications. The draft guideline provides information and advice on assessing planning permit applications and planning scheme amendments regarding potential development near an operating or closed landfill".

"The draft guideline is consistent with EPA's existing policy the Landfill BPEM, but is written specifically for a planning audience, and provides more details on EPA' s expectations for an appropriate risk - based assessment of proposals".

This guideline was prompted by the VAGO Managing Landfills Audit Recommendation 13 "(EPA) works with the Metropolitan Waste and Resource Recovery Group to develop an appropriate planning process/ to ensure the Environment Protection Authority's involvement in rezoning or application process across Victoria where development adjacent to active or closed landfills may be involved".

The ultimate goal of EPA's landfill guidance is to protect the community from the impacts of landfill gas migration and amenity issues such as odour, dust and noise.

16.2 Purpose

This guideline is intended for use by planning and responsible authorities under the Planning and Environment Act 1987.

It provides information and advice on assessing planning permit applications and planning scheme amendments that would lead to development near an operating or closed landfill. More specifically, it advises on what level of assessment a planning or responsible authority should require to inform its decision, and recommends a staged, risk-based approach.

The advice in this guideline is consistent with and builds on the advice to planning and responsible authorities in Best Practice Environmental Management: Siting, Design, Operation and Rehabilitation of Landfills2 (the Landfill BPEM). Sections 5.1.5, 8.2.1 and 8.2.2 of that document are the focus of this guideline. **Further advice must be sought from EPA for the consideration of any development at the site.**

16.3 Legal status

This guideline provides information and advice. It is not legally binding.

17 LIMITATION OF THIS REPORT

This report has been provided by Geoaquitards Environmental for the sole use of the client and only for the purpose for which it was prepared. Any representation contained in the report is made only for the client.

The work was conducted, and the report has been prepared, in response to specific instructions from Abraham Albatat from Bayside City Council to whom this report is addressed, within the time and budgetary requirements of the client, and in reliance on certain data and information made available to Geoaquitards Environmental.

The findings contained within this Site Investigation are the result of standard investigation techniques used in accordance with normal practices and standards. To the best of our knowledge, they represent a reasonable interpretation of the current conditions and previous land uses for the site.

It is also noted that sub-surface conditions can change with time, and the report is based on data that was gathered at the time of the report. This services performed by Geoaquitards Environmental have been conducted in a manner consistent with the level of quality and skill generally exercised by members of its profession and consulting practice.

This document does not purport to provide legal advice and any conclusions or recommendations herein must not be relied as substitute for such advice. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Geoaquitards Environmental. The advice provided herein relates only to these purposes and must be reviewed by a competent Environmental Scientist/Engineer, experienced in contaminated site investigation, before being used for any other purpose and Geoaquitards Environmental accept no responsibility for other use of the advice. No warranties, expressed or implied, are offered to any third parties. No liabilities will be accepted for use of this report by any third party. This report should not be altered, amended or abbreviated, issued in part and issued incomplete in any way without prior checking and approved by Geoaquitards Environmental. Geoaquitards Environmental accepts no responsibility for any circumstances that arise from issue of the report that has been modified in any way as outlined above.

Prepared /Submitted by

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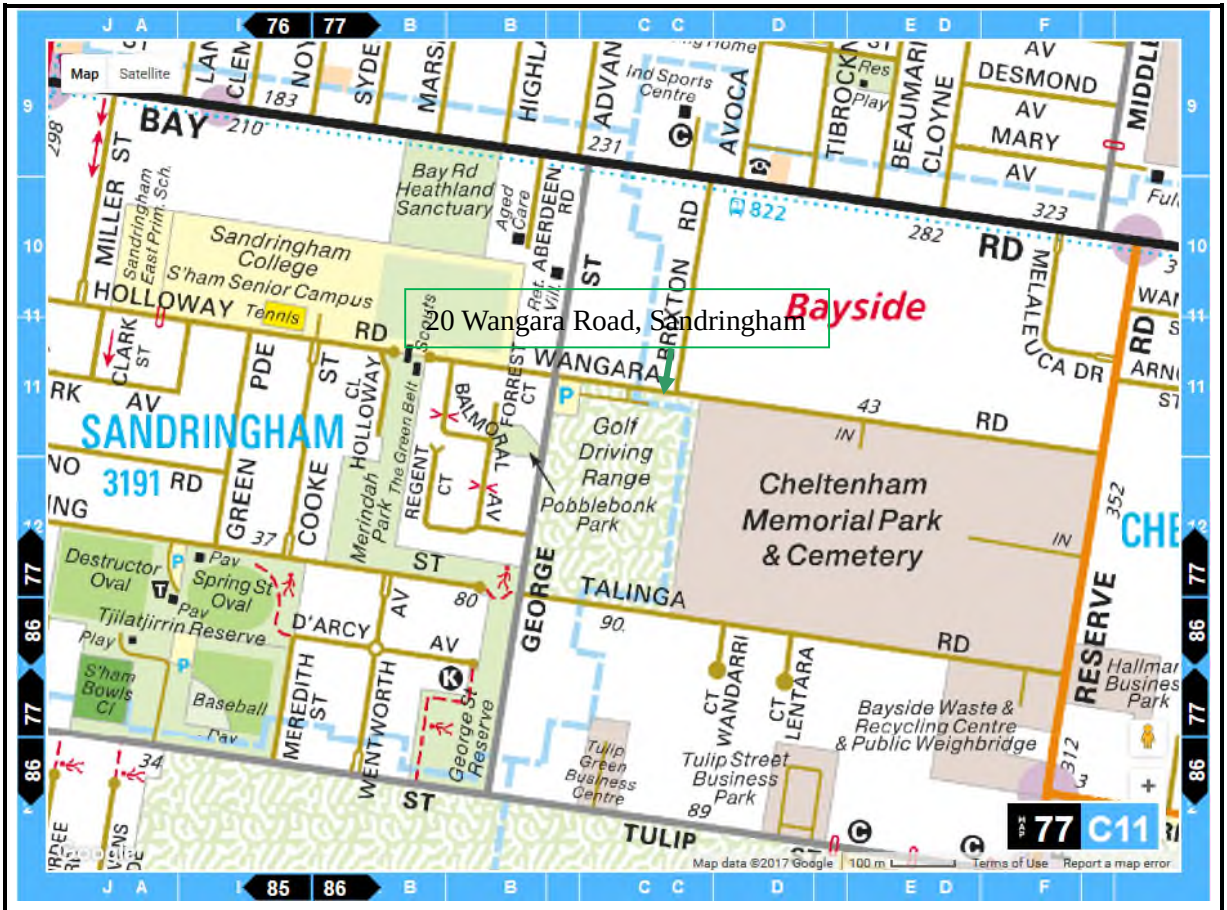
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APPENDIX A

MELWAY MAP, SITE AND SURROUNDING AERIAL VIEWS

FIGURE 3 – MELWAY MAP



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Melway Edition	42
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Map Reference	77 C11
Date	19 July 2017	Project	Environmental Due Diligence

FIGURE 4 - SITE AND SURROUND AERIAL VIEWS



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1		
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Figure	Site and Surround Aerial Views
Date	19 July 2017	Project	Environmental Due Diligence

APPENDIX B

VIC EPA PRIORITY SITES REGISTER EXTRACT

EPA Priority Sites Register Extract

Client: Geoaquitards Environmental
Suite 49 160 Gippsland Highway
Dandenong South 3175

Client Ref: RM406-M.1
Certificate No: 45390136:72381377

Property Inquiry Details:

Street Address: 20 Wangara Road
Suburb: SANDRINGHAM
Map Reference: Melways Edition 39, Map No:77, Grid Letter: C, Grid Number: 11

Date of Search: 17/07/2017

Priority Sites Register Report:

A search of the Priority Sites Register **for the above map reference**, has indicated that this **site is not listed on, and is not in the vicinity of a site listed on the Priority Sites Register** at the date last notified by the EPA.

Important Information about the Priority Sites Register:

You should be aware that the Priority Sites Register lists only those sites for which EPA has requirements for active management of land and groundwater contamination. Appropriate clean up and management of these sites is an EPA priority, and as such, EPA has issued either a: Clean Up Notice pursuant to section 62A, or a Pollution Abatement Notice (related to land and groundwater) pursuant to section 31A or 31B of the Environment Protection Act 1970 on the occupier of the site to require active management of these sites.

The Priority Sites Register does not list all sites that are known to be contaminated in Victoria. A site should not be presumed to be free of contamination just because it does not appear on the Priority Sites Register.

Persons intending to enter into property transactions should be aware that many properties may have been contaminated by past land uses and EPA may not be aware of the presence of contamination. Municipal planning authorities hold information about previous land uses, and it is advisable that such sources of information also be consulted.

For sites listed on the Priority Sites Register, a copy of the relevant Notice, detailing the reasons for issue of the Notice, and management requirements, is available on request from EPA for $8 per Notice.

For more information relating to the Priority Sites Register, refer to EPA information bulletin: Priority Sites Register (EPA Publication 735, December 2000). For a copy of this publication, copies of relevant Notices, of for more information relating to sites listed on the Priority Sites Register, please contact EPA as given below:
EPA Information Centre
200 Victoria Street, Carlton 3053
Tel: (03) 9695 2722 Fax: (03) 9695 2610

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APPENDIX C

ROYAL HISTORICAL SOCIETY OF VICTORIA INC INFORMATION

ROYAL HISTORICAL SOCIETY OF VICTORIA INC.
239 A'Beckett Street, Melbourne 3000

Date: **11 July 2017**

Attention: **Emmanuel Ernest**

Company: **Geoaquitards Environmental**

From: **Gerardine Horgan (Administrative Officer)**

SITE SEARCH: 20 Wangara Road, Sandringham

The site for review is located on the south east corner of Wangara Road and George Street, Sandringham. The site extends through to Talinga Road which forms the southern boundary.

The site therefore has a frontage to Wangara Road (north side boundary), George Street (west side boundary) and Talinga Road (south side boundary). The Cheltenham Cemetery abuts the site on the east side.

In the Sands & McDougall Directories, up until the final edition in 1974, the site under review has been listed as being within the suburb of Cheltenham.

According to the Sands and McDougall Street Directories, Bay Road (to the north of the site) was constructed in 1876, and this area has been associated with market gardening up until the 1950's.

Wangara Roads was not listed in the Sands and MacDougall Directories until the mid-1960s.

The Cheltenham Memorial Park and Cemetery, adjacent to the site under review, was established in 1933. At that time this section of Wangara Road appears to have been an extension of Holloway Road (located to the west) and known as Holloway Road.

In the 1935 Sands & McDougall Directory the occupant of the site under review is listed as Ernest Springhall with the Cheltenham Cemetery next listed, on the east side. There is no information as to the use of the subject land.

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Email: office@historyvictoria.org.au ABN 36 520 675 471 Reg. No: A2529
Find out more about us on our website: www.historyvictoria.org.au

ROYAL HISTORICAL SOCIETY OF VICTORIA INC.
239 A'Beckett Street, Melbourne 3000

In the 1942 directory the occupant is listed as Harry Forrest, then the cemetery. In the 1950 and 1955 directories the occupant is listed as William Moore, then the cemetery. In both these years the land directly opposite the site, on the north side of Holloway Road, is listed as W T Grant, Sandpits.

In the 1960 directory the occupant of the site under review is listed as L J Ayres.

In the 1965 directory the occupant is still listed as L J Ayres however the street name had changed from "Holloway" to "Wangara".

In the 1970 directory the occupant remains as L J Ayres, with the Cheltenham Cemetery adjacent.

In the 1974 directory (the final edition of the Sands & McDougall Directories) the occupant is listed as L J Ayres however the "City of Sandringham Council Tip" is also listed between L J Ayres and the Cemetery.

In the 1976 Melways Street Directory the site under review is listed as 'Wangara Reserve'. In the 1988 Street Directory this had changed to 'Golf Driving Range' and this is still the notation over the site in the 2017 Street Directory.

Research by Greg Buchanan

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APPENDIX D
SITE PHOTOGRAPHS

FIGURE 5 - SITE PHOTOGRAPHS



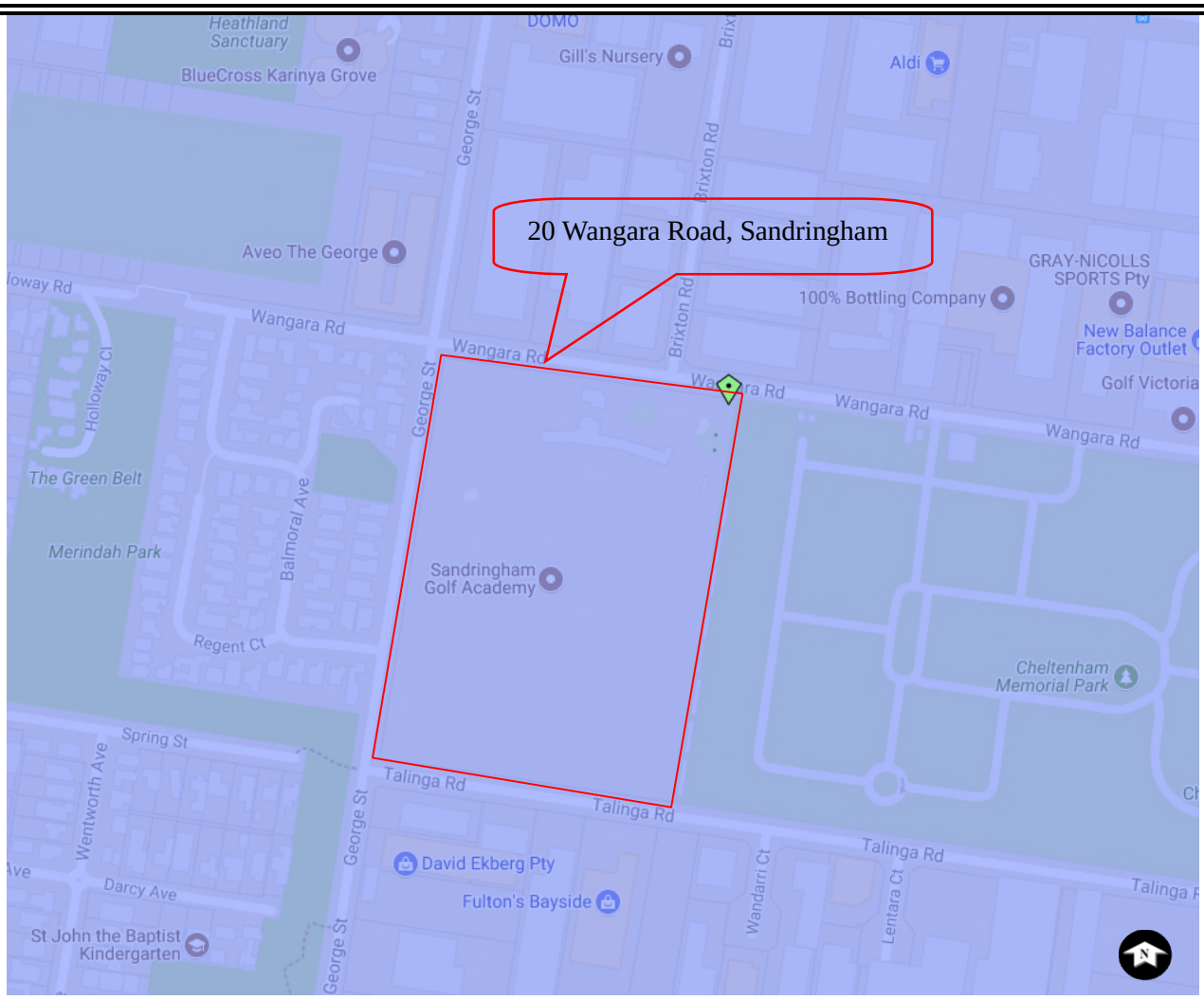
Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Description	Site Photographs
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Photograph Date	3 July 2017
Data	19 July 2017	Project	Environmental Due Diligence

APPENDIX E

GROUNDWATER DATABASE SEARCH

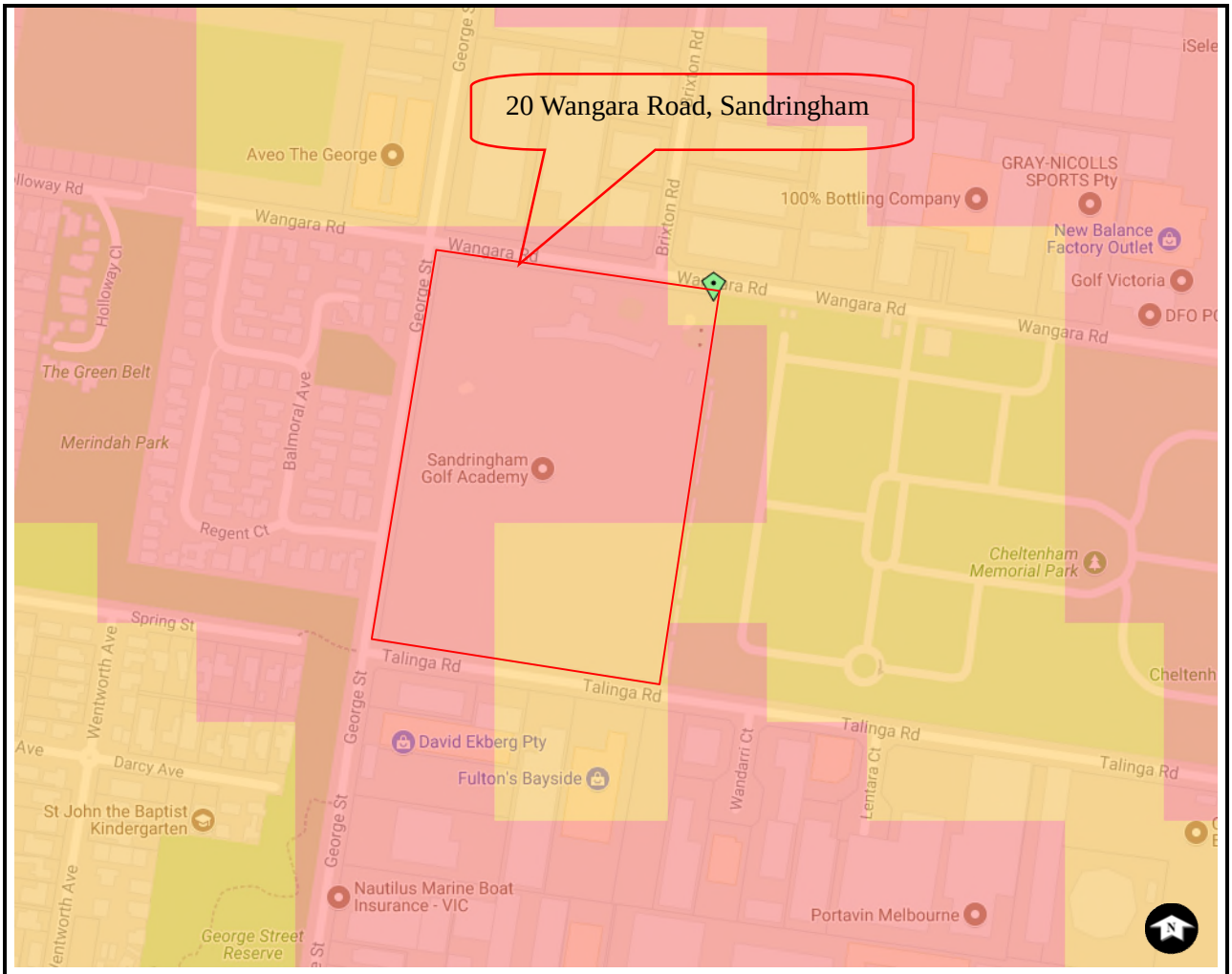
FIGURE 6 - VISUALISING VICTORIA'S GROUNDWATER (VVG) MAP – GROUNDWATER SALINITY



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	VVG Groundwater Salinity Map Legend	Groundwater salinity (DEPI) Less than 500mg/l 500-1,000mg/l 1,000-3,500mg/l 3,500-7,000mg/l 7,000-13,000mg/l 13,000-35,000mg/l Greater than 35,000mg/l
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Source	The Earth Resources web mapping application - Geovic
Date	17 July 2017	Project	Environmental Due Diligence

FIGURE 7 - VISUALISING VICTORIA'S GROUNDWATER (VVG) MAP – DEPTH TO WATERTABLE



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	VVG Depth to Watertable Map Legend	Depth to watertable (DEPI) Less than 5 metres 5 to 10 metres 10 to 20 metres 20 to 50 metres Greater than 50 metres
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Source	The Earth Resources web mapping application - Geovic
Date	17 July 2017	Project	Environmental Due Diligence

APPENDIX F

LABORATORY ANALYTICAL REPORTS

eurofins | mgt

Certificate of Analysis

Geoaquitards Environmental
PO Box 4040
Dandenong Sth
VIC 3175

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Emmanuel Ernest**

Report **552701-S**
Project name SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID RM406-M.1
Received Date Jul 03, 2017

Client Sample ID			**73 @ 0.50M**	**73 @ 1.00M**	**73 @ 1.50M**	**73 @ 3.00M**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02189**	**M17-Jl02190**	**M17-Jl02191**	**M17-Jl02192**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	60	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	73 @ 0.50M Soil M17-Jl02189 Jul 03, 2017	73 @ 1.00M Soil M17-Jl02190 Jul 03, 2017	73 @ 1.50M Soil M17-Jl02191 Jul 03, 2017	73 @ 3.00M Soil M17-Jl02192 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	99	-
p-Terphenyl-d14 (surr.)	1	%	-	-	80	-
% Moisture	1	%	7.7	15	16	8.4
Heavy Metals						
Arsenic	2	mg/kg	11	9.7	14	3.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	28	34	24
Copper	5	mg/kg	23	11	12	19
Lead	5	mg/kg	42	32	34	20
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	20	14	13	32
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	87	45	59	36

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	68 @ 0.15M Soil M17-Jl02193 Jul 03, 2017	68 @ 0.50M Soil M17-Jl02194 Jul 03, 2017	68 @ 1.50M Soil M17-Jl02195 Jul 03, 2017	68 @ 2.00M Soil M17-Jl02196 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	74	-
TRH C29-C36	50	mg/kg	-	-	53	-
TRH C10-36 (Total)	50	mg/kg	-	-	127	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-

Client Sample ID			68 @ 0.15M	68 @ 0.50M	68 @ 1.50M	68 @ 2.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02193**	**M17-Jl02194**	**M17-Jl02195**	**M17-Jl02196**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	120	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	1.7	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	2.0	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	2.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	1.1	-
Benzo(a)pyrene	0.5	mg/kg	-	-	1.3	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	1.1	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	1.2	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	1.2	-
Chrysene	0.5	mg/kg	-	-	1.3	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	1.9	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	0.8	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	1.0	-
Pyrene	0.5	mg/kg	-	-	1.9	-
Total PAH*	0.5	mg/kg	-	-	12.8	-
2-Fluorobiphenyl (surr.)	1	%	-	-	107	-
p-Terphenyl-d14 (surr.)	1	%	-	-	78	-
% Moisture	1	%	6.1	9.7	8.4	9.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.7	5.1	5.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	17	9.2	9.6
Copper	5	mg/kg	< 5	10	28	26
Lead	5	mg/kg	11	18	35	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	< 5	23	6.9	11
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	18	24	62	220

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	62 @ 0.15M Soil M17-Jl02197 Jul 03, 2017	62 @ 0.50M Soil M17-Jl02198 Jul 03, 2017	62 @ 1.50M Soil M17-Jl02199 Jul 03, 2017	54 @ 0.15M Soil M17-Jl02200 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	280	-
TRH C29-C36	50	mg/kg	-	-	94	-
TRH C10-36 (Total)	50	mg/kg	-	-	374	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	370	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	0.5	-
Total PAH*	0.5	mg/kg	-	-	0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	106	-
p-Terphenyl-d14 (surr.)	1	%	-	-	130	-
% Moisture	1	%	5.6	8.4	14	6.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	62 @ 0.15M Soil M17-Jl02197 Jul 03, 2017	62 @ 0.50M Soil M17-Jl02198 Jul 03, 2017	62 @ 1.50M Soil M17-Jl02199 Jul 03, 2017	54 @ 0.15M Soil M17-Jl02200 Jul 03, 2017
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.9	12	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	10	22	< 5
Copper	5	mg/kg	< 5	12	12	7.8
Lead	5	mg/kg	57	29	57	32
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	< 5	19	13	< 5
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	9.6	49	46	37

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	54 @ 0.50M Soil M17-Jl02201 Jul 03, 2017	54 @ 1.00M Soil M17-Jl02202 Jul 03, 2017	54 @ 2.50M Soil M17-Jl02203 Jul 03, 2017	54 @ 3.00M Soil M17-Jl02204 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	670	-
TRH C29-C36	50	mg/kg	-	-	300	-
TRH C10-36 (Total)	50	mg/kg	-	-	970	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	51	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	970	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			54 @ 0.50M	54 @ 1.00M	54 @ 2.50M	54 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02201**	**M17-Jl02202**	**M17-Jl02203**	**M17-Jl02204**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	0.6	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	0.6	-
2-Fluorobiphenyl (surr.)	1	%	-	-	107	-
p-Terphenyl-d14 (surr.)	1	%	-	-	131	-
% Moisture	1	%	7.9	10.0	22	12
Heavy Metals						
Arsenic	2	mg/kg	4.7	6.6	4.8	4.9
Cadmium	0.4	mg/kg	< 0.4	0.6	1.7	0.7
Chromium	5	mg/kg	14	19	29	13
Copper	5	mg/kg	11	27	20	21
Lead	5	mg/kg	38	68	360	120
Mercury	0.1	mg/kg	< 0.1	2.6	1.0	0.3
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	20	15	10	15
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	0.8	-	< 0.2
Tin	10	mg/kg	< 10	13	-	140
Zinc	5	mg/kg	61	110	280	200

Client Sample ID			DUPLICATE 1	74 @ 0.15M	74 @ 0.50M	74 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02205**	**M17-Jl02206**	**M17-Jl02207**	**M17-Jl02208**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	11	5.6	9.8	11
Heavy Metals						
Arsenic	2	mg/kg	6.4	4.7	4.2	10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	11	15	16
Copper	5	mg/kg	30	17	6.8	15
Lead	5	mg/kg	72	34	16	41
Mercury	0.1	mg/kg	1.3	5.3	0.2	0.2
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	11	13	8.4	11
Selenium	2	mg/kg	< 2	< 2	< 2	< 2

Client Sample ID			DUPLICATE 1	74 @ 0.15M	74 @ 0.50M	74 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02205**	**M17-Jl02206**	**M17-Jl02207**	**M17-Jl02208**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Heavy Metals						
Silver	0.2	mg/kg	0.3	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	36	< 10	< 10	< 10
Zinc	5	mg/kg	92	62	29	58

Client Sample ID			63 @ 0.15M	63 @ 0.50M	63 @ 1.00M	63 @ 1.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02209**	**M17-Jl02210**	**M17-Jl02211**	**M17-Jl02212**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	200
TRH C29-C36	50	mg/kg	-	-	-	200
TRH C10-36 (Total)	50	mg/kg	-	-	-	400
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	360
TRH >C34-C40	100	mg/kg	-	-	-	100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	63 @ 0.15M Soil M17-Jl02209 Jul 03, 2017	63 @ 0.50M Soil M17-Jl02210 Jul 03, 2017	63 @ 1.00M Soil M17-Jl02211 Jul 03, 2017	63 @ 1.50M Soil M17-Jl02212 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	109
p-Terphenyl-d14 (surr.)	1	%	-	-	-	138
% Moisture	1	%	7.6	8.0	10	9.5
Heavy Metals						
Arsenic	2	mg/kg	5.5	6.5	5.2	4.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.4	16	13	7.6
Copper	5	mg/kg	9.3	72	29	13
Lead	5	mg/kg	47	130	140	53
Mercury	0.1	mg/kg	< 0.1	0.1	0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	8.0	23	12	10
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	< 10	17	-
Zinc	5	mg/kg	65	120	200	64

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	63 @ 3.00M Soil M17-Jl02214 Jul 03, 2017	55 @ 0.50M Soil M17-Jl02215 Jul 03, 2017	55 @ 2.50M Soil M17-Jl02217 Jul 03, 2017	55 @ 3.00M Soil M17-Jl02218 Jul 03, 2017
% Moisture	1	%	7.4	9.3	11	9.7
Heavy Metals						
Arsenic	2	mg/kg	7.5	6.5	10	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	10	28	10
Copper	5	mg/kg	21	16	30	14
Lead	5	mg/kg	65	52	55	40
Mercury	0.1	mg/kg	0.4	< 0.1	0.2	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	14	14	22	12
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	120	29
Zinc	5	mg/kg	95	120	160	180

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	47 @ 0.15M Soil M17-Jl02219 Jul 03, 2017	47 @ 1.50M Soil M17-Jl02220 Jul 03, 2017	47 @ 3.00M Soil M17-Jl02222 Jul 03, 2017	46 @ 0.15M Soil M17-Jl02223 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	73	-	-
TRH C15-C28	50	mg/kg	-	520	-	-
TRH C29-C36	50	mg/kg	-	430	-	-
TRH C10-36 (Total)	50	mg/kg	-	1023	-	-
BTEX						
Benzene	0.1	mg/kg	-	0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	1.5	-	-
o-Xylene	0.1	mg/kg	-	0.5	-	-
Xylenes - Total	0.3	mg/kg	-	2.0	-	-
4-Bromofluorobenzene (surr.)	1	%	-	63	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	1.1	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	98	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	97	-	-
TRH >C16-C34	100	mg/kg	-	840	-	-
TRH >C34-C40	100	mg/kg	-	240	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	1.2	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	1.4	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.7	-	-
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	-	0.7	-	-
Benzo(a)pyrene	0.5	mg/kg	-	0.9	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	0.7	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	0.7	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	0.6	-	-
Chrysene	0.5	mg/kg	-	0.7	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	1.3	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	0.5	-	-
Naphthalene	0.5	mg/kg	-	< 2	-	-
Phenanthrene	0.5	mg/kg	-	0.7	-	-
Pyrene	0.5	mg/kg	-	1.2	-	-
Total PAH*	0.5	mg/kg	-	8	-	-
2-Fluorobiphenyl (surr.)	1	%	-	114	-	-
p-Terphenyl-d14 (surr.)	1	%	-	114	-	-
% Moisture	1	%	6.4	12	20	7.9

Client Sample ID			47 @ 0.15M	47 @ 1.50M	47 @ 3.00M	46 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02219**	**M17-Jl02220**	**M17-Jl02222**	**M17-Jl02223**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.9	4.6	10	4.3
Cadmium	0.4	mg/kg	< 0.4	0.5	1.0	< 0.4
Chromium	5	mg/kg	15	30	35	9.3
Copper	5	mg/kg	14	20	72	19
Lead	5	mg/kg	45	78	49	48
Mercury	0.1	mg/kg	< 0.1	1.6	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	< 5	< 5
Nickel	5	mg/kg	14	17	17	9.3
Selenium	2	mg/kg	< 2	-	< 2	< 2
Silver	0.2	mg/kg	< 0.2	-	7.9	< 0.2
Tin	10	mg/kg	< 10	-	< 10	< 10
Zinc	5	mg/kg	70	120	360	71

Client Sample ID			46 @ 1.00M	46 @ 3.00M	38 @ 0.15M	38 @ 0.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02224**	**M17-Jl02226**	**M17-Jl02227**	**M17-Jl02228**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	11	11	11	12
Heavy Metals						
Arsenic	2	mg/kg	2.8	4.7	< 2	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	10	< 5	15
Copper	5	mg/kg	14	14	6.1	6.1
Lead	5	mg/kg	14	39	15	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	9.2	15	< 5	6.9
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	0.2	< 0.2
Tin	10	mg/kg	500	< 10	< 10	< 10
Zinc	5	mg/kg	41	500	26	14

Client Sample ID			31 @ 0.15M	31 @ 0.50M	31 @ 3.00M	30 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02230**	**M17-Jl02231**	**M17-Jl02233**	**M17-Jl02234**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	9.1	11	23	5.7
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	5.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.6	< 0.4
Chromium	5	mg/kg	< 5	< 5	9.2	< 5
Copper	5	mg/kg	8.3	6.7	26	< 5

Client Sample ID			31 @ 0.15M	31 @ 0.50M	31 @ 3.00M	30 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02230	M17-Jl02231	M17-Jl02233	M17-Jl02234
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	43	47	120	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	9.7	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	1.0	< 0.2
Tin	10	mg/kg	< 10	< 10	33	< 10
Zinc	5	mg/kg	110	79	130	33

Client Sample ID			30 @ 0.50M	30 @ 3.00M	DUPLICATE 2	39 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02235	M17-Jl02237	M17-Jl02238	M17-Jl02239
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	15	17	16	6.6
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.8	< 2	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.8
Chromium	5	mg/kg	< 5	6.5	< 5	8.1
Copper	5	mg/kg	5.2	14	6.3	7.7
Lead	5	mg/kg	27	37	8.0	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	3.3	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	11	< 5	5.9
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	69	77	68	65

Client Sample ID			39 @ 0.50M	39 @ 1.00M	39 @ 2.50M	32 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02240	M17-Jl02241	M17-Jl02243	M17-Jl02244
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	6.5	12	17	15
Heavy Metals						
Arsenic	2	mg/kg	5.0	7.9	7.1	4.4
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.3	26	19	15
Copper	5	mg/kg	21	17	55	< 5
Lead	5	mg/kg	100	85	60	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	12	18	14	7.1

Client Sample ID			39 @ 0.50M	39 @ 1.00M	39 @ 2.50M	32 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02240	M17-Jl02241	M17-Jl02243	M17-Jl02244
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	14	21	< 10
Zinc	5	mg/kg	200	110	230	27

Client Sample ID			32 @ 0.50M	32 @ 3.00M	33 @ 0.15M	33 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02245	M17-Jl02247	M17-Jl02248	M17-Jl02249
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	10.0	12	7.9	6.7
Heavy Metals						
Arsenic	2	mg/kg	17	5.9	3.1	6.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	32	6.1	11
Copper	5	mg/kg	7.9	16	5.8	14
Lead	5	mg/kg	35	28	31	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	12	18	5.2	21
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	25
Zinc	5	mg/kg	31	140	33	32

Client Sample ID			33 @ 1.50M	33 @ 3.00M	40 @ 0.15M	40 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02250	M17-Jl02252	M17-Jl02253	M17-Jl02254
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	33 @ 1.50M Soil M17-Jl02250 Jul 03, 2017	33 @ 3.00M Soil M17-Jl02252 Jul 03, 2017	40 @ 0.15M Soil M17-Jl02253 Jul 03, 2017	40 @ 1.50M Soil M17-Jl02254 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	0.6
Phenanthrene	0.5	mg/kg	-	-	-	0.8
Pyrene	0.5	mg/kg	-	-	-	0.7
Total PAH*	0.5	mg/kg	-	-	-	3.2
2-Fluorobiphenyl (surr.)	1	%	-	-	-	99
p-Terphenyl-d14 (surr.)	1	%	-	-	-	107
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	-	-	< 0.05
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	<0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	81
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	83
Triazines						
Atrazine	0.2	mg/kg	-	-	-	< 0.2
NEPM 2013 Acid Herbicides						
Picloram*	0.5	mg/kg	-	-	-	< 2.5
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	113
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Mirex	0.01	mg/kg	-	-	-	< 0.05
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	0.10
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1

Client Sample ID			33 @ 1.50M	33 @ 3.00M	40 @ 0.15M	40 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02250	M17-Jl02252	M17-Jl02253	M17-Jl02254
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
NEPM 2013 Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	-	-	81
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	83
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Phenol	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	111
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (free)	5	mg/kg	-	-	-	< 5
% Moisture	1	%	11	13	6.9	35
Heavy Metals						
Arsenic	2	mg/kg	4.3	9.6	3.5	5.8
Beryllium	2	mg/kg	-	-	-	< 2
Boron	10	mg/kg	-	-	-	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.5
Chromium	5	mg/kg	8.6	14	7.9	14
Cobalt	5	mg/kg	-	-	-	< 5
Copper	5	mg/kg	12	15	22	39
Lead	5	mg/kg	40	44	110	550
Manganese	5	mg/kg	-	-	-	100
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.0
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	9.3	18	14	9.2
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	24	< 10	-
Zinc	5	mg/kg	50	53	61	610

Client Sample ID			40 @ 3.00M	72 @ 0.15M	72 @ 0.50M	61 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02255	M17-Jl02256	M17-Jl02257	M17-Jl02258
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	22	4.4	4.3	13
Heavy Metals						
Arsenic	2	mg/kg	3.6	5.9	4.1	4.9
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	7.6	17	12	30
Copper	5	mg/kg	9.1	26	16	< 5
Lead	5	mg/kg	39	66	52	38
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	5.7	28	25	11
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			40 @ 3.00M	72 @ 0.15M	72 @ 0.50M	61 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02255	M17-Jl02256	M17-Jl02257	M17-Jl02258
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Tin	10	mg/kg	51	< 10	< 10	< 10
Zinc	5	mg/kg	59	93	110	16

Client Sample ID			61 @ 0.50M	61 @ 3.00M	53 @ 0.15M	53 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02259	M17-Jl02260	M17-Jl02261	M17-Jl02262
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	8.7	12	7.1	7.7
Heavy Metals						
Arsenic	2	mg/kg	7.4	5.0	3.9	4.7
Cadmium	0.4	mg/kg	< 0.4	0.7	< 0.4	< 0.4
Chromium	5	mg/kg	11	11	6.6	13
Copper	5	mg/kg	17	24	11	18
Lead	5	mg/kg	70	33	34	97
Mercury	0.1	mg/kg	< 0.1	4.2	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	10	16	7.8	19
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	75	97	49	55

Client Sample ID			53 @ 1.00M	45 @ 0.15M	45 @ 0.50M	45 @ 3.00M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02263	M17-Jl02264	M17-Jl02265	M17-Jl02266
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	22	6.0	8.9	16
Heavy Metals						
Arsenic	2	mg/kg	4.7	< 2	2.0	5.7
Cadmium	0.4	mg/kg	1.9	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	< 5	11	24
Copper	5	mg/kg	48	< 5	< 5	14
Lead	5	mg/kg	74	7.8	7.1	51
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	12	< 5	< 5	10
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	23	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	11	< 10	< 10	24
Zinc	5	mg/kg	220	13	11	110

Client Sample ID			DUPLICATE 4	67 @ 0.15M	67 @ 0.50M	60 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02267**	**M17-Jl02268**	**M17-Jl02269**	**M17-Jl02271**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	8.3	8.1	6.5	9.5
Heavy Metals						
Arsenic	2	mg/kg	2.8	3.3	3.9	9.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	11	13	12
Copper	5	mg/kg	8.4	< 5	< 5	12
Lead	5	mg/kg	13	8.2	5.5	40
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	7.8	< 5	< 5	9.4
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	21	16	< 5	86

Client Sample ID			60 @ 0.50M	60 @ 3.00M	52 @ 0.15M	52 @ 0.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02272**	**M17-Jl02273**	**M17-Jl02274**	**M17-Jl02275**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	8.5	9.1	7.1	8.4
Heavy Metals						
Arsenic	2	mg/kg	2.5	5.7	3.5	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.8	8.8	9.9	6.9
Copper	5	mg/kg	< 5	9.5	9.5	6.7
Lead	5	mg/kg	8.5	29	51	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	8.1	5.6	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	0.3
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	7.6	41	59	34

Client Sample ID			52 @ 1.00M	52 @ 2.50M	52 @ 3.00M	57 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02276**	**M17-Jl02277**	**M17-Jl02278**	**M17-Jl02281**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	14	11	12	8.9

Client Sample ID			52 @ 1.00M	52 @ 2.50M	52 @ 3.00M	57 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02276**	**M17-Jl02277**	**M17-Jl02278**	**M17-Jl02281**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	33	7.6	4.7	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	13	11	5.4
Copper	5	mg/kg	9.0	11	9.9	9.5
Lead	5	mg/kg	34	45	43	44
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	8.5	11	11	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	48	42	42	63

Client Sample ID			57 @ 0.50M	57 @ 1.00M	57 @ 2.50M	65 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02282**	**M17-Jl02283**	**M17-Jl02284**	**M17-Jl02285**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	11	11	11	8.8
Heavy Metals						
Arsenic	2	mg/kg	22	23	6.2	4.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	31	27	9.4	9.5
Copper	5	mg/kg	32	49	60	47
Lead	5	mg/kg	160	150	400	73
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	29	25	8.6	7.4
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	1.8	< 0.2	< 0.2
Tin	10	mg/kg	39	340	< 10	< 10
Zinc	5	mg/kg	150	140	170	170

Client Sample ID			65 @ 1.00M	65 @ 2.00M	65 @ 2.50M	65 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02286**	**M17-Jl02287**	**M17-Jl02288**	**M17-Jl02289**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	10.0	24	17	20
Heavy Metals						
Arsenic	2	mg/kg	3.9	3.9	5.8	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.3	8.3	14	12
Copper	5	mg/kg	14	38	30	32

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	65 @ 1.00M Soil M17-Jl02286 Jul 03, 2017	65 @ 2.00M Soil M17-Jl02287 Jul 03, 2017	65 @ 2.50M Soil M17-Jl02288 Jul 03, 2017	65 @ 3.00M Soil M17-Jl02289 Jul 03, 2017
Heavy Metals						
Lead	5	mg/kg	32	100	48	57
Mercury	0.1	mg/kg	< 0.1	6.6	0.2	1.9
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	17	< 5	17	9.2
Selenium	2	mg/kg	< 2	< 2	< 2	2.2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	0.2
Tin	10	mg/kg	73	< 10	25	35
Zinc	5	mg/kg	58	130	120	120

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	76 @ 2.50M Soil M17-Jl02290 Jul 03, 2017	75 @ 0.15M Soil M17-Jl02291 Jul 03, 2017	75 @ 0.50M Soil M17-Jl02292 Jul 03, 2017	75 @ 1.50M Soil M17-Jl02293 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	0.6
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	0.6
Total PAH*	0.5	mg/kg	-	-	-	1.2
2-Fluorobiphenyl (surr.)	1	%	-	-	-	101
p-Terphenyl-d14 (surr.)	1	%	-	-	-	115
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	-	-	< 0.05
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	76 @ 2.50M Soil M17-Jl02290 Jul 03, 2017	75 @ 0.15M Soil M17-Jl02291 Jul 03, 2017	75 @ 0.50M Soil M17-Jl02292 Jul 03, 2017	75 @ 1.50M Soil M17-Jl02293 Jul 03, 2017
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	60
Triazines						
Atrazine	0.2	mg/kg	-	-	-	< 0.2
NEPM 2013 Acid Herbicides						
Picloram*	0.5	mg/kg	-	-	-	< 0.5
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	76
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Mirex	0.01	mg/kg	-	-	-	< 0.05
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	60
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Phenol	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	107
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (free)	5	mg/kg	-	-	-	< 5
% Moisture	1	%	9.3	7.7	15	7.8
Heavy Metals						
Arsenic	2	mg/kg	15	5.8	15	12
Beryllium	2	mg/kg	-	-	-	< 2
Boron	10	mg/kg	-	-	-	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	12	31	14
Cobalt	5	mg/kg	-	-	-	< 5

Client Sample ID			76 @ 2.50M	75 @ 0.15M	75 @ 0.50M	75 @ 1.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02290**	**M17-JI02291**	**M17-JI02292**	**M17-JI02293**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Heavy Metals						
Copper	5	mg/kg	14	8.1	5.2	11
Lead	5	mg/kg	52	39	40	47
Manganese	5	mg/kg	-	-	-	42
Mercury	0.1	mg/kg	< 0.1	0.5	< 0.1	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	16	6.7	13	8.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Zinc	5	mg/kg	91	65	62	51

Client Sample ID			75 @ 2.00M	75 @ 2.50M	69 @ 0.50M	69 @ 1.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02294**	**M17-JI02295**	**M17-JI02297**	**M17-JI02298**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	14	7.2	2.6	5.9
Heavy Metals						
Arsenic	2	mg/kg	7.8	2.5	< 2	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	< 5	< 5	19
Copper	5	mg/kg	11	14	< 5	15
Lead	5	mg/kg	160	28	9.9	49
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	6.8	< 5	< 5	13
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	16	13	< 10	< 10
Zinc	5	mg/kg	150	49	20	88

Client Sample ID			69 @ 2.00M	69 @ 2.50M	69 @ 3.00M	64 @ 0.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02299**	**M17-JI02300**	**M17-JI02301**	**M17-JI02303**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	6.3	10.0	10	7.2
Heavy Metals						
Arsenic	2	mg/kg	7.0	12	7.4	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	15	16	6.4
Copper	5	mg/kg	15	11	15	< 5
Lead	5	mg/kg	46	43	41	29
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			69 @ 2.00M	69 @ 2.50M	69 @ 3.00M	64 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02299	M17-Jl02300	M17-Jl02301	M17-Jl02303
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	14	13	14	< 5
Selenium	2	mg/kg	< 2	< 2	2.1	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	14	34	44	< 10
Zinc	5	mg/kg	79	120	110	36

Client Sample ID			64 @ 1.00M	64 @ 2.50M	56 @ 0.15M	56 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02304	M17-Jl02305	M17-Jl02306	M17-Jl02307
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	7.0	15	7.6	5.7
Heavy Metals						
Arsenic	2	mg/kg	3.2	2.8	4.3	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.9	18	16	11
Copper	5	mg/kg	9.2	15	9.0	15
Lead	5	mg/kg	34	45	28	22
Mercury	0.1	mg/kg	0.1	0.4	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	6.0	7.1	5.9	34
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	16	< 10	< 10
Zinc	5	mg/kg	50	66	43	44

Client Sample ID			56 @ 2.00M	56 @ 3.00M	48 @ 0.15M	48 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02308	M17-Jl02309	M17-Jl02310	M17-Jl02311
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	11	28	7.3	16
Heavy Metals						
Arsenic	2	mg/kg	4.4	5.8	6.6	3.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.7	22	12	10
Copper	5	mg/kg	11	26	11	28
Lead	5	mg/kg	77	98	47	93
Mercury	0.1	mg/kg	0.1	0.3	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	11	18	10	24
Selenium	2	mg/kg	< 2	3.5	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			56 @ 2.00M	56 @ 3.00M	48 @ 0.15M	48 @ 1.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02308**	**M17-JI02309**	**M17-JI02310**	**M17-JI02311**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Heavy Metals						
Tin	10	mg/kg	< 10	150	< 10	12
Zinc	5	mg/kg	100	420	72	130

Client Sample ID			48 @ 2.00M	48 @ 3.00M	DUPLICATE 5	DUPLICATE 6
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02312**	**M17-JI02314**	**M17-JI02315**	**M17-JI02316**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	16	30	11	12
Heavy Metals						
Arsenic	2	mg/kg	6.8	110	4.9	13
Cadmium	0.4	mg/kg	1.1	14	< 0.4	2.0
Chromium	5	mg/kg	16	110	8.5	28
Copper	5	mg/kg	39	170000	32	97
Lead	5	mg/kg	83	7200	43	99
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	0.6
Molybdenum	5	mg/kg	< 5	< 100	< 5	< 5
Nickel	5	mg/kg	11	300	11	23
Selenium	2	mg/kg	2.3	< 20	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 50	< 0.2	4.1
Tin	10	mg/kg	99	790	< 10	320
Zinc	5	mg/kg	170	120000	73	390

Client Sample ID			DUPLICATE 7	43 @ 1.50M	43 @ 2.00M	43 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02317**	**M17-JI02319**	**M17-JI02320**	**M17-JI02321**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	9.6	2.9	3.0	3.0
Heavy Metals						
Arsenic	2	mg/kg	7.6	3.7	2.7	2.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	23	5.9	6.3	< 5
Copper	5	mg/kg	15	20	13	17
Lead	5	mg/kg	93	48	38	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	13	5.7	16	7.5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	93	69	450	200

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	51 @ 1.50M Soil M17-Jl02323 Jul 03, 2017	51 @ 2.50M Soil M17-Jl02324 Jul 03, 2017	51 @ 3.00M Soil M17-Jl02325 Jul 03, 2017	59 @ 0.15M Soil M17-Jl02326 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	-
Volatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	51 @ 1.50M Soil M17-Jl02323 Jul 03, 2017	51 @ 2.50M Soil M17-Jl02324 Jul 03, 2017	51 @ 3.00M Soil M17-Jl02325 Jul 03, 2017	59 @ 0.15M Soil M17-Jl02326 Jul 03, 2017
Volatile Organics						
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
Fluorobenzene (surr.)	1	%	-	86	-	-
4-Bromofluorobenzene (surr.)	1	%	-	85	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	0.6	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	0.7	-	-
Total PAH*	0.5	mg/kg	-	1.3	-	-
2-Fluorobiphenyl (surr.)	1	%	-	105	-	-
p-Terphenyl-d14 (surr.)	1	%	-	115	-	-

Client Sample ID			51 @ 1.50M	51 @ 2.50M	51 @ 3.00M	59 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02323	M17-Jl02324	M17-Jl02325	M17-Jl02326
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	59	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	66	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	59	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	66	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	-	-
Pentachlorophenol	1.0	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	1.0	mg/kg	-	< 1	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-

Client Sample ID			51 @ 1.50M	51 @ 2.50M	51 @ 3.00M	59 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02323	M17-Jl02324	M17-Jl02325	M17-Jl02326
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	111	-	-
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract)	0.1	pH Units	-	7.3	-	-
% Moisture	1	%	11	4.1	4.2	9.9
Heavy Metals						
Arsenic	2	mg/kg	9.2	6.9	12	110
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	14	18	30
Copper	5	mg/kg	8.8	9.2	17	12
Lead	5	mg/kg	53	150	35	63
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	14	12	15	22
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	110	40	80	100

Client Sample ID			59 @ 2.50M	70 @ 0.15M	70 @ 0.50M	70 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02327	M17-Jl02328	M17-Jl02329	M17-Jl02330
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	4.0	6.2	12	3.4
Heavy Metals						
Arsenic	2	mg/kg	4.5	20	20	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.9	24	41	11
Copper	5	mg/kg	26	11	13	6.3
Lead	5	mg/kg	42	47	49	34
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	8.4	13	16	6.2
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	11	< 10	< 10	16
Zinc	5	mg/kg	94	66	71	380

Client Sample ID			70 @ 3.00M	37 @ 0.15M	37 @ 0.50M	37 @ 2.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02331	M17-Jl02332	M17-Jl02333	M17-Jl02334
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	5.8	5.6	11	9.3
Heavy Metals						
Arsenic	2	mg/kg	13	< 2	3.5	4.1
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	< 5	18	< 5
Copper	5	mg/kg	55	5.1	5.2	< 5
Lead	5	mg/kg	76	43	27	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	9.5	< 5	5.3	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	170	52	35	34

Client Sample ID			29 @ 0.15M	29 @ 0.50M	29 @ 2.50M	28 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02335	M17-Jl02336	M17-Jl02337	M17-Jl02338
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	5.1	7.0	9.2	6.0
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.1	< 5	9.1	< 5
Copper	5	mg/kg	9.6	7.1	6.9	7.0
Lead	5	mg/kg	130	53	78	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	6.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	0.3	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	61	70	64	34

Client Sample ID			28 @ 0.50M	28 @ 2.50M	36 @ 0.15M	36 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02339	M17-Jl02340	M17-Jl02341	M17-Jl02342
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	4.9	9.3	6.4	7.8

Client Sample ID			28 @ 0.50M	28 @ 2.50M	36 @ 0.15M	36 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02339	M17-Jl02340	M17-Jl02341	M17-Jl02342
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	3.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	8.6	11
Copper	5	mg/kg	< 5	< 5	< 5	10
Lead	5	mg/kg	< 5	< 5	9.3	34
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	6.8
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	26	< 5	7.8	37

Client Sample ID			36 @ 2.00M	36 @ 2.50M	36 @ 3.00M	DUPLICATE 8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02343	M17-Jl02344	M17-Jl02345	M17-Jl02346
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	8.1	11	15	8.4
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	19	14
Copper	5	mg/kg	< 5	< 5	< 5	21
Lead	5	mg/kg	< 5	< 5	9.2	50
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	6.5	7.7
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	9.9	< 5	6.9	78

Client Sample ID			35 @ 0.15M	35 @ 0.50M	35 @ 1.50M	35 @ 2.00M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02347	M17-Jl02348	M17-Jl02349	M17-Jl02350
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	35 @ 0.15M Soil M17-Jl02347 Jul 03, 2017	35 @ 0.50M Soil M17-Jl02348 Jul 03, 2017	35 @ 1.50M Soil M17-Jl02349 Jul 03, 2017	35 @ 2.00M Soil M17-Jl02350 Jul 03, 2017
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	63	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	106	-
p-Terphenyl-d14 (surr.)	1	%	-	-	112	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-

Client Sample ID			35 @ 0.15M	35 @ 0.50M	35 @ 1.50M	35 @ 2.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02347**	**M17-JI02348**	**M17-JI02349**	**M17-JI02350**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	107	-
% Moisture	1	%	3.3	3.5	8.1	5.6
Heavy Metals						
Arsenic	2	mg/kg	2.8	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	17	5.2	-	< 5
Copper	5	mg/kg	34	6.5	-	< 5
Lead	5	mg/kg	81	37	-	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	20	6.2	-	< 5
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	150	43	-	< 5

Client Sample ID			35 @ 2.50M	35 @ 3.00M	34 @ 2.50M	41 @ 0.15M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02351**	**M17-JI02352**	**M17-JI02353**	**M17-JI02354**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	6.5	12	10	9.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	16	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	21	18
Copper	5	mg/kg	< 5	< 5	26	6.1
Lead	5	mg/kg	< 5	< 5	74	71
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	27	< 5
Selenium	2	mg/kg	< 2	< 2	2.6	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	< 5	6.5	500	66

Client Sample ID			41 @ 0.50M	41 @ 1.00M	49 @ 0.15M	49 @ 0.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02355**	**M17-JI02356**	**M17-JI02357**	**M17-JI02358**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	8.9	12	11	5.6
Heavy Metals						
Arsenic	2	mg/kg	6.1	4.9	34	27
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	18	52	27
Copper	5	mg/kg	10	10	37	26
Lead	5	mg/kg	27	36	170	210
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	16	22	13	15
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	30	42	6100	960

Client Sample ID			49 @ 2.00M	42 @ 0.15M	42 @ 2.50M	42 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02359**	**M17-JI02360**	**M17-JI02361**	**M17-JI02362**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	12	6.2	15	15
Heavy Metals						
Arsenic	2	mg/kg	13	4.1	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	31	9.7	< 5	< 5
Copper	5	mg/kg	73	13	< 5	< 5
Lead	5	mg/kg	110	40	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	21	9.2	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	39	< 10	< 10	< 10
Zinc	5	mg/kg	590	60	17	< 5

Client Sample ID			50 @ 1.00M	50 @ 2.50M	50 @ 3.00M	58 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02363	M17-Jl02364	M17-Jl02365	M17-Jl02366
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	51	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	102	-
p-Terphenyl-d14 (surr.)	1	%	-	-	107	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	50 @ 1.00M Soil M17-Jl02363 Jul 03, 2017	50 @ 2.50M Soil M17-Jl02364 Jul 03, 2017	50 @ 3.00M Soil M17-Jl02365 Jul 03, 2017	58 @ 0.15M Soil M17-Jl02366 Jul 03, 2017
Phenols (Halogenated)						
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	102	-
% Clay	1	%	6.3	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	10	uS/cm	370	-	-	-
pH (units)(1:5 soil:CaCl2 extract)	0.1	pH Units	7.7	-	-	-
Total Organic Carbon	0.1	%	1.4	-	-	-
% Moisture	1	%	5.0	11	9.1	7.0
Heavy Metals						
Arsenic	2	mg/kg	-	2.3	-	6.2
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	8.5	-	17
Copper	5	mg/kg	-	< 5	-	18
Iron	20	mg/kg	9200	-	-	-
Lead	5	mg/kg	-	7.6	-	39
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Molybdenum	5	mg/kg	-	< 5	-	< 5
Nickel	5	mg/kg	-	< 5	-	9.1
Selenium	2	mg/kg	-	< 2	-	< 2
Silver	0.2	mg/kg	-	< 0.2	-	< 0.2
Tin	10	mg/kg	-	< 10	-	< 10
Zinc	5	mg/kg	-	5.8	-	88
Heavy Metals						
Iron (%)	0.01	%	0.92	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	25	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	58 @ 0.50M Soil M17-Jl02367 Jul 03, 2017	58 @ 1.00M Soil M17-Jl02368 Jul 03, 2017	58 @ 2.50M Soil M17-Jl02369 Jul 03, 2017	66 @ 1.50M Soil M17-Jl02370 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			58 @ 0.50M	58 @ 1.00M	58 @ 2.50M	66 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02367	M17-Jl02368	M17-Jl02369	M17-Jl02370
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Volatile Organics						
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Fluorobenzene (surr.)	1	%	-	-	61	-
4-Bromofluorobenzene (surr.)	1	%	-	-	60	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	80	-
p-Terphenyl-d14 (surr.)	1	%	-	-	128	-

Client Sample ID			58 @ 0.50M	58 @ 1.00M	58 @ 2.50M	66 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02367	M17-Jl02368	M17-Jl02369	M17-Jl02370
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	74	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	74	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-

Client Sample ID			58 @ 0.50M	58 @ 1.00M	58 @ 2.50M	66 @ 1.50M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02367**	**M17-JI02368**	**M17-JI02369**	**M17-JI02370**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	79	-
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
Fluoride	100	mg/kg	-	-	< 100	-
pH (1:5 Aqueous extract)	0.1	pH Units	-	-	7.2	-
% Moisture	1	%	7.6	3.2	5.7	13
Heavy Metals						
Arsenic	2	mg/kg	3.7	8.4	< 2	19
Cadmium	0.4	mg/kg	< 0.4	0.8	< 0.4	< 0.4
Chromium	5	mg/kg	8.3	20	< 5	27
Copper	5	mg/kg	20	23	< 5	7.0
Lead	5	mg/kg	77	53	< 5	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	5.9	18	< 5	9.2
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	85	99	9.9	63

Client Sample ID			80 @ 0.15M	80 @ 0.50M	79 @ 1.00M	79 @ 3.00M
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-JI02371**	**M17-JI02372**	**M17-JI02373**	**M17-JI02374**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit				
% Moisture	1	%	4.0	5.6	6.6	1.9
Heavy Metals						
Arsenic	2	mg/kg	2.5	4.3	8.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	9.2	16	< 5
Copper	5	mg/kg	10.0	24	11	< 5
Lead	5	mg/kg	85	44	56	5.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	5.2	6.0	14	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	87	84	97	18

Client Sample ID			78 @ 0.15M	78 @ 0.50M	71 @ 2.50M	12 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02375	M17-Jl02376	M17-Jl02377	M17-Jl02378
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	6.3	10	4.8	2.9
Heavy Metals						
Arsenic	2	mg/kg	6.4	7.9	6.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	27	12	< 5
Copper	5	mg/kg	47	15	26	< 5
Lead	5	mg/kg	39	19	28	26
Mercury	0.1	mg/kg	5.7	1.6	1.5	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	5.8	9.2	27	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	59	27	71	20

Client Sample ID			13 @ 0.15M	13 @ 0.50M	13 @ 2.00M	13 @ 3.00M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02379	M17-Jl02380	M17-Jl02381	M17-Jl02382
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	70	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			13 @ 0.15M	13 @ 0.50M	13 @ 2.00M	13 @ 3.00M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02379	M17-Jl02380	M17-Jl02381	M17-Jl02382
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	104	-
p-Terphenyl-d14 (surr.)	1	%	-	-	109	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	106	-
% Moisture	1	%	2.1	1.5	7.0	4.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	< 5	-	7.2
Copper	5	mg/kg	< 5	< 5	-	< 5
Lead	5	mg/kg	11	38	-	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	13 @ 0.15M Soil M17-Jl02379 Jul 03, 2017	13 @ 0.50M Soil M17-Jl02380 Jul 03, 2017	13 @ 2.00M Soil M17-Jl02381 Jul 03, 2017	13 @ 3.00M Soil M17-Jl02382 Jul 03, 2017
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	< 5	< 5	-	< 5
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	13	25	-	< 5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	21 @ 0.15M Soil M17-Jl02383 Jul 03, 2017	21 @ 2.50M Soil M17-Jl02384 Jul 03, 2017	22 @ 0.15M Soil M17-Jl02385 Jul 03, 2017	22 @ 0.50M Soil M17-Jl02386 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	72	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	21 @ 0.15M Soil M17-Jl02383 Jul 03, 2017	21 @ 2.50M Soil M17-Jl02384 Jul 03, 2017	22 @ 0.15M Soil M17-Jl02385 Jul 03, 2017	22 @ 0.50M Soil M17-Jl02386 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	107	-	-
p-Terphenyl-d14 (surr.)	1	%	-	112	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	-	-
Pentachlorophenol	1.0	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	1.0	mg/kg	-	< 1	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	106	-	-
% Moisture	1	%	16	7.4	2.9	3.0
Heavy Metals						
Arsenic	2	mg/kg	9.3	-	3.2	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	33	-	9.0	< 5
Copper	5	mg/kg	28	-	11	< 5
Lead	5	mg/kg	41	-	26	6.0
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	< 5	< 5
Nickel	5	mg/kg	38	-	14	< 5
Selenium	2	mg/kg	< 2	-	< 2	< 2
Silver	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Tin	10	mg/kg	< 10	-	< 10	< 10
Zinc	5	mg/kg	110	-	35	7.7

Client Sample ID			22 @ 3.00M	20 @ 0.15M	20 @ 0.50M	20 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02387	M17-Jl02388	M17-Jl02389	M17-Jl02390
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	110
p-Terphenyl-d14 (surr.)	1	%	-	-	-	117
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	-	< 1

Client Sample ID			22 @ 3.00M	20 @ 0.15M	20 @ 0.50M	20 @ 1.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02387	M17-Jl02388	M17-Jl02389	M17-Jl02390
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	-	< 1
Pentachlorophenol	1.0	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	1.0	mg/kg	-	-	-	< 1
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	110
% Moisture	1	%	17	2.4	7.4	2.2
Heavy Metals						
Arsenic	2	mg/kg	2.7	< 2	15	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	15	< 5	14	-
Copper	5	mg/kg	< 5	5.5	< 5	-
Lead	5	mg/kg	6.0	27	7.2	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	< 5	< 5	9.3	-
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Zinc	5	mg/kg	< 5	35	14	-

Client Sample ID			83 @ 0.15M	83 @ 0.50M	83 @ 1.00M	82 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02391	M17-Jl02392	M17-Jl02393	M17-Jl02394
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	4.3	4.6	8.7	6.4
Heavy Metals						
Arsenic	2	mg/kg	2.9	2.5	< 2	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	5.7	20	10
Copper	5	mg/kg	14	11	37	17
Lead	5	mg/kg	41	43	65	92
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	83 @ 0.15M Soil M17-Jl02391 Jul 03, 2017	83 @ 0.50M Soil M17-Jl02392 Jul 03, 2017	83 @ 1.00M Soil M17-Jl02393 Jul 03, 2017	82 @ 0.15M Soil M17-Jl02394 Jul 03, 2017
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	8.2	6.7	26	7.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	86	71	200	150

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	82 @ 0.50M Soil M17-Jl02395 Jul 03, 2017	82 @ 2.00M Soil M17-Jl02396 Jul 03, 2017	82 @ 3.00M Soil M17-Jl02397 Jul 03, 2017	81 @ 0.15M Soil M17-Jl02398 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	-
Volatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	82 @ 0.50M Soil M17-Jl02395 Jul 03, 2017	82 @ 2.00M Soil M17-Jl02396 Jul 03, 2017	82 @ 3.00M Soil M17-Jl02397 Jul 03, 2017	81 @ 0.15M Soil M17-Jl02398 Jul 03, 2017
Volatile Organics						
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
Fluorobenzene (surr.)	1	%	-	83	-	-
4-Bromofluorobenzene (surr.)	1	%	-	84	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	82 @ 0.50M Soil M17-Jl02395 Jul 03, 2017	82 @ 2.00M Soil M17-Jl02396 Jul 03, 2017	82 @ 3.00M Soil M17-Jl02397 Jul 03, 2017	81 @ 0.15M Soil M17-Jl02398 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	110	-	-
p-Terphenyl-d14 (surr.)	1	%	-	115	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	82 @ 0.50M Soil M17-Jl02395 Jul 03, 2017	82 @ 2.00M Soil M17-Jl02396 Jul 03, 2017	82 @ 3.00M Soil M17-Jl02397 Jul 03, 2017	81 @ 0.15M Soil M17-Jl02398 Jul 03, 2017
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	-	-
Pentachlorophenol	1.0	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	1.0	mg/kg	-	< 1	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	109	-	-
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract)	0.1	pH Units	-	8.2	-	-
% Moisture	1	%	5.3	5.7	4.8	5.4
Heavy Metals						
Arsenic	2	mg/kg	3.6	8.7	6.0	3.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	9.7	12	9.4	7.2
Copper	5	mg/kg	16	8.6	22	9.8
Lead	5	mg/kg	84	35	74	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	11	9.9	12	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	13	< 10
Zinc	5	mg/kg	200	51	180	69

Client Sample ID			84 @ 0.15M	84 @ 0.50M	85 @ 0.15M	85 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02399	M17-Jl02400	M17-Jl02401	M17-Jl02402
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	2.1	4.4	5.5	4.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	5.8	2.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	22	< 5
Copper	5	mg/kg	< 5	8.3	23	< 5
Lead	5	mg/kg	14	22	43	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	19	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	23	45	110	40

Client Sample ID			77 @ 3.00M	27 @ 0.15M	19 @ 0.15M	19 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02403	M17-Jl02404	M17-Jl02405	M17-Jl02406
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	3.5	3.9	5.0	3.7
Heavy Metals						
Arsenic	2	mg/kg	7.9	< 2	< 2	< 2
Cadmium	0.4	mg/kg	2.8	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	34	5.6	< 5	< 5
Copper	5	mg/kg	100	15	< 5	< 5
Lead	5	mg/kg	380	60	< 5	< 5
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	17	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	28	< 10	< 10	< 10
Zinc	5	mg/kg	1900	83	< 5	< 5

Client Sample ID			18 @ 0.15M	18 @ 0.50M	26 @ 0.15M	26 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02407	M17-Jl02408	M17-Jl02409	M17-Jl02410
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	2.7	1.1	7.3	8.7

Client Sample ID			18 @ 0.15M	18 @ 0.50M	26 @ 0.15M	26 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02407	M17-Jl02408	M17-Jl02409	M17-Jl02410
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	4.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	7.3
Copper	5	mg/kg	< 5	< 5	6.2	32
Lead	5	mg/kg	27	< 5	27	1000
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	9.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	12	< 5	18	87

Client Sample ID			14 @ 0.15M	14 @ 0.50M	15 @ 0.15M	15 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02411	M17-Jl02412	M17-Jl02413	M17-Jl02414
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	3.0	2.7	7.3	2.4
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	8.9	13	29	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	5.0
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	9.0	21	32	17

Client Sample ID			17 @ 0.15M	17 @ 0.50M	25 @ 0.15M	25 @ 0.50M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02415	M17-Jl02416	M17-Jl02417	M17-Jl02418
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
% Moisture	1	%	5.8	3.3	5.8	3.2
Heavy Metals						
Arsenic	2	mg/kg	11	< 2	16	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	25	< 5	28	11
Copper	5	mg/kg	15	360	20	130

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	17 @ 0.15M Soil M17-Jl02415 Jul 03, 2017	17 @ 0.50M Soil M17-Jl02416 Jul 03, 2017	25 @ 0.15M Soil M17-Jl02417 Jul 03, 2017	25 @ 0.50M Soil M17-Jl02418 Jul 03, 2017
Heavy Metals						
Lead	5	mg/kg	16	85	24	500
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	24	< 5	28	30
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	13	< 10	270
Zinc	5	mg/kg	44	78	59	1300

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	23 @ 0.15M Soil M17-Jl02419 Jul 03, 2017	23 @ 0.50M Soil M17-Jl02420 Jul 03, 2017	23 @ 2.50M Soil M17-Jl02421 Jul 03, 2017	16 @ 0.15M Soil M17-Jl02422 Jul 03, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	64	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	23 @ 0.15M Soil M17-Jl02419 Jul 03, 2017	23 @ 0.50M Soil M17-Jl02420 Jul 03, 2017	23 @ 2.50M Soil M17-Jl02421 Jul 03, 2017	16 @ 0.15M Soil M17-Jl02422 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	107	-
p-Terphenyl-d14 (surr.)	1	%	-	-	128	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	111	-
% Clay	1	%	-	-	23	-
Conductivity (1:5 aqueous extract at 25°C)	10	uS/cm	-	-	190	-
pH (units)(1:5 soil:CaCl2 extract)	0.1	pH Units	-	-	7.2	-
Total Organic Carbon	0.1	%	-	-	0.2	-
% Moisture	1	%	4.7	4.3	14	1.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	< 5	-	8.3
Copper	5	mg/kg	5.3	6.6	-	19
Iron	20	mg/kg	-	-	12000	-
Lead	5	mg/kg	5.7	15	-	55
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5

Client Sample ID			23 @ 0.15M	23 @ 0.50M	23 @ 2.50M	16 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02419	M17-Jl02420	M17-Jl02421	M17-Jl02422
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	5.6	5.9	-	11
Selenium	2	mg/kg	< 2	< 2	-	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	14	18	-	54
Heavy Metals						
Iron (%)	0.01	%	-	-	1.2	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	14	-

Client Sample ID			16 @ 0.50M	16 @ 2.50M	16 @ 3.00M	24 @ 0.15M
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M17-Jl02423	M17-Jl02424	M17-Jl02425	M17-Jl02426
Date Sampled			Jul 03, 2017	Jul 03, 2017	Jul 03, 2017	Jul 03, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	-
Volatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	16 @ 0.50M Soil M17-Jl02423 Jul 03, 2017	16 @ 2.50M Soil M17-Jl02424 Jul 03, 2017	16 @ 3.00M Soil M17-Jl02425 Jul 03, 2017	24 @ 0.15M Soil M17-Jl02426 Jul 03, 2017
Volatile Organics						
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	-
Bromoform	0.5	mg/kg	-	< 0.5	-	-
Bromomethane	0.5	mg/kg	-	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Chloroethane	0.5	mg/kg	-	< 0.5	-	-
Chloroform	0.5	mg/kg	-	< 0.5	-	-
Chloromethane	0.5	mg/kg	-	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.5	mg/kg	-	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.5	mg/kg	-	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
Fluorobenzene (surr.)	1	%	-	80	-	-
4-Bromofluorobenzene (surr.)	1	%	-	78	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	16 @ 0.50M Soil M17-Jl02423 Jul 03, 2017	16 @ 2.50M Soil M17-Jl02424 Jul 03, 2017	16 @ 3.00M Soil M17-Jl02425 Jul 03, 2017	24 @ 0.15M Soil M17-Jl02426 Jul 03, 2017
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	108	-	-
p-Terphenyl-d14 (surr.)	1	%	-	114	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	70	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	70	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	16 @ 0.50M Soil M17-Jl02423 Jul 03, 2017	16 @ 2.50M Soil M17-Jl02424 Jul 03, 2017	16 @ 3.00M Soil M17-Jl02425 Jul 03, 2017	24 @ 0.15M Soil M17-Jl02426 Jul 03, 2017
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	-	-
Pentachlorophenol	1.0	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	1.0	mg/kg	-	< 1	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	106	-	-
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract)	0.1	pH Units	-	7.2	-	-
% Moisture	1	%	3.1	3.7	6.0	2.3
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.4	15	< 5
Copper	5	mg/kg	13	8.7	< 5	5.7
Lead	5	mg/kg	120	26	15	40
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	84	20	11	67

Client Sample ID			24 @ 2.50M	24 @ 3.00M
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**M17-Jl02427**	**M17-Jl02428**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit		
% Moisture	1	%	4.9	5.8
Heavy Metals				
Arsenic	2	mg/kg	6.9	3.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	8.9	5.6
Copper	5	mg/kg	12	9.6
Lead	5	mg/kg	46	66
Mercury	0.1	mg/kg	1.2	0.2
Molybdenum	5	mg/kg	< 5	< 5
Nickel	5	mg/kg	17	11
Selenium	2	mg/kg	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10
Zinc	5	mg/kg	56	64

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
Eurofins | mgt Suite B4A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-ORG-2010 TRH C6-C36			
BTEX	Melbourne	Jul 05, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 05, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 05, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-ORG-2140 PAH and Phenols in Soils by GCMS			
Phenols (Halogenated)	Melbourne	Jul 05, 2017	14 Days
- Method: LTM-ORG-2140 PAH and Phenols in Soils by GCMS			
Phenols (non-Halogenated)	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-ORG-2140 PAH and Phenols in Soils by GCMS			
Vic EPA IWRG 621 (Solids)			
Volatile Organics	Melbourne	Jul 05, 2017	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organochlorine Pesticides	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Melbourne	Jul 05, 2017	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Chromium (hexavalent)	Melbourne	Jul 05, 2017	28 Day
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (total)	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride	Melbourne	Jul 06, 2017	28 Day
- Method: NEPC 404 (Fusion followed by ISE)			
pH (1:5 Aqueous extract)	Melbourne	Jul 05, 2017	7 Day
- Method: LTM-GEN-7090 pH in soil by ISE			
IWRG 621 Metals : Metals M12	Melbourne	Jul 05, 2017	28 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding Methyl Mercury/PBDE			
Organophosphorus Pesticides	Melbourne	Jul 05, 2017	14 Day
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Triazines	Melbourne	Jul 05, 2017	14 Day
- Method: USEPA 8270			
NEPM 2013 Acid Herbicides	Melbourne	Jul 05, 2017	14 Day
- Method: MGT 530			
NEPM 2013 Organochlorine Pesticides	Melbourne	Jul 05, 2017	14 Day
- Method: USEPA 8081 Organochlorine Pesticides			
NEPM 2013 Phenols	Melbourne	Jul 05, 2017	14 Day
- Method: USEPA 8270 Phenols			
NEPM 2013 Metals : Metals M12	Melbourne	Jul 05, 2017	28 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
Heavy Metals	Melbourne	Jul 05, 2017	180 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Jul 06, 2017	6 Day
- Method: LTM-GEN-7040			

Description	Testing Site	Extracted	Holding Time
Conductivity (1:5 aqueous extract at 25°C)	Melbourne	Jul 05, 2017	7 Day
- Method: LTM-INO-4030			
pH (units)(1:5 soil:CaCl2 extract)	Melbourne	Jul 05, 2017	7 Day
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Jul 07, 2017	28 Day
- Method: APHA 5310B Total Organic Carbon			
Cation Exchange Capacity	Melbourne	Jul 06, 2017	180 Days
- Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)			
% Moisture	Melbourne	Jul 04, 2017	14 Day
- Method: LTM-GEN-7080 Moisture			
Eurofins | mgt Suite B7			
Metals M8	Melbourne	Jul 05, 2017	28 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			

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Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail	Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271		X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217	X								
Brisbane Laboratory - NATA Site # 20794						X			
Perth Laboratory - NATA Site # 18217									
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	73 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02188	X							
2	73 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02189			X	X				
3	73 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02190			X	X				
4	73 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02191				X			X	
5	73 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02192			X	X				
6	68 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02193	X		X	X				
7	68 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02194			X	X				
8	68 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02195				X			X	
9	68 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02196			X	X				

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
10	62 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02197	X		X	X					
11	62 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02198			X	X					
12	62 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02199				X			X		
13	54 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02200	X		X	X					
14	54 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02201			X	X					
15	54 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02202			X	X					
16	54 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02203				X			X		
17	54 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02204			X	X					
18	DUPLICATE 1	Jul 03, 2017		Soil	M17-Jl02205			X	X					
19	74 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02206	X		X	X					
20	74 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02207			X	X					
21	74 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02208			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
22	63 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02209			X	X					
23	63 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02210			X	X					
24	63 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02211			X	X					
25	63 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02212				X			X		
26	63 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02213	X								
27	63 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02214			X	X					
28	55 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02215			X	X					
29	55 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02216	X								
30	55 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02217			X	X					
31	55 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02218			X	X					
32	47 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02219			X	X					
33	47 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02220				X			X		

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
34	47 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02221	X								
35	47 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02222			X	X					
36	46 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02223			X	X					
37	46 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02224			X	X					
38	46 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02225	X								
39	46 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02226			X	X					
40	38 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02227			X	X					
41	38 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02228			X	X					
42	38 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02229	X								
43	31 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02230			X	X					
44	31 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02231			X	X					
45	31 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02232	X								

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
46	31 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02233			X	X					
47	30 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02234			X	X					
48	30 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02235			X	X					
49	30 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02236	X								
50	30 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02237			X	X					
51	DUPLICATE 2	Jul 03, 2017		Soil	M17-Jl02238			X	X					
52	39 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02239			X	X					
53	39 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02240			X	X					
54	39 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02241			X	X					
55	39 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02242	X								
56	39 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02243			X	X					
57	32 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02244			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
58	32 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02245			X	X					
59	32 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02246	X								
60	32 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02247			X	X					
61	33 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02248			X	X					
62	33 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02249			X	X					
63	33 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02250			X	X					
64	33 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02251	X								
65	33 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02252			X	X					
66	40 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02253			X	X					
67	40 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02254				X	X				
68	40 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02255			X	X					
69	72 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02256			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
70	72 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02257			X	X					
71	61 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02258	X		X	X					
72	61 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02259			X	X					
73	61 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02260			X	X					
74	53 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02261	X		X	X					
75	53 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02262			X	X					
76	53 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02263			X	X					
77	45 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02264	X		X	X					
78	45 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02265			X	X					
79	45 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02266			X	X					
80	DUPLICATE 4	Jul 03, 2017		Soil	M17-Jl02267			X	X					
81	67 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02268			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
82	67 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02269	X		X	X					
83	67 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02270	X								
84	60 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02271			X	X					
85	60 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02272			X	X					
86	60 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02273			X	X					
87	52 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02274			X	X					
88	52 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02275			X	X					
89	52 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02276	X		X	X					
90	52 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02277			X	X					
91	52 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02278			X	X					
92	44 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02279	X								
93	44 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02280	X								

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Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
94	57 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02281	X		X	X					
95	57 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02282			X	X					
96	57 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02283			X	X					
97	57 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02284			X	X					
98	65 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02285	X		X	X					
99	65 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02286			X	X					
100	65 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02287			X	X					
101	65 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02288	X		X	X					
102	65 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02289			X	X					
103	76 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02290			X	X					
104	75 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02291	X		X	X					
105	75 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02292			X	X					

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Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
106	75 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02293				X	X				
107	75 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02294			X	X					
108	75 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02295			X	X					
109	69 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02296	X								
110	69 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02297			X	X					
111	69 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02298			X	X					
112	69 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02299			X	X					
113	69 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02300			X	X					
114	69 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02301			X	X					
115	64 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02302	X								
116	64 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02303			X	X					
117	64 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02304			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
118	64 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02305			X	X					
119	56 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02306	X		X	X					
120	56 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02307			X	X					
121	56 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02308			X	X					
122	56 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02309			X	X					
123	48 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02310	X		X	X					
124	48 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02311			X	X					
125	48 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02312			X	X					
126	48 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02314			X	X					
127	DUPLICATE 5	Jul 03, 2017		Soil	M17-Jl02315			X	X					
128	DUPLICATE 6	Jul 03, 2017		Soil	M17-Jl02316			X	X					
129	DUPLICATE 7	Jul 03, 2017		Soil	M17-Jl02317			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
130	43 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02318	X								
131	43 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02319			X	X					
132	43 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02320			X	X					
133	43 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02321			X	X					
134	51 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02322	X								
135	51 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02323			X	X					
136	51 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02324				X				X	
137	51 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02325			X	X					
138	59 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02326	X		X	X					
139	59 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02327			X	X					
140	70 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02328			X	X					
141	70 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02329	X		X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
142	70 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02330			X	X					
143	70 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02331			X	X					
144	37 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02332			X	X					
145	37 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02333			X	X					
146	37 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02334			X	X					
147	29 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02335			X	X					
148	29 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02336			X	X					
149	29 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02337			X	X					
150	28 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02338			X	X					
151	28 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02339			X	X					
152	28 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02340			X	X					
153	36 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02341			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
154	36 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02342			X	X					
155	36 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02343			X	X					
156	36 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02344			X	X					
157	36 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02345			X	X					
158	DUPLICATE 8	Jul 03, 2017		Soil	M17-Jl02346			X	X					
159	35 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02347			X	X					
160	35 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02348			X	X					
161	35 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02349				X					X
162	35 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02350			X	X					
163	35 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02351			X	X					
164	35 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02352			X	X					
165	34 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02353			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
166	41 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02354			X	X					
167	41 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02355			X	X					
168	41 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02356			X	X					
169	49 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02357			X	X					
170	49 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02358			X	X					
171	49 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02359			X	X					
172	42 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02360			X	X					
173	42 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02361			X	X					
174	42 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02362			X	X					
175	50 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02363				X		X			
176	50 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02364			X	X					
177	50 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02365				X					X

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
178	58 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02366			X	X					
179	58 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02367			X	X					
180	58 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02368			X	X					
181	58 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02369				X				X	
182	66 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02370			X	X					
183	80 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02371			X	X					
184	80 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02372			X	X					
185	79 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02373			X	X					
186	79 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02374			X	X					
187	78 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02375			X	X					
188	78 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02376			X	X					
189	71 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02377			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
190	12 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02378			X	X					
191	13 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02379			X	X					
192	13 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02380			X	X					
193	13 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02381				X					X
194	13 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02382			X	X					
195	21 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02383			X	X					
196	21 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02384				X					X
197	22 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02385			X	X					
198	22 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02386			X	X					
199	22 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02387			X	X					
200	20 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02388			X	X					
201	20 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02389			X	X					

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VIC 3175

Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
202	20 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02390				X					X
203	83 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02391			X	X					
204	83 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02392			X	X					
205	83 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02393			X	X					
206	82 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02394			X	X					
207	82 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02395			X	X					
208	82 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02396				X				X	
209	82 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02397			X	X					
210	81 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02398			X	X					
211	84 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02399			X	X					
212	84 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02400			X	X					
213	85 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02401			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
214	85 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02402			X	X					
215	77 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02403			X	X					
216	27 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02404			X	X					
217	19 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02405			X	X					
218	19 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02406			X	X					
219	18 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02407			X	X					
220	18 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02408			X	X					
221	26 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02409			X	X					
222	26 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02410			X	X					
223	14 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02411			X	X					
224	14 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02412			X	X					
225	15 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02413			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
226	15 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02414			X	X					
227	17 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02415			X	X					
228	17 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02416			X	X					
229	25 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02417			X	X					
230	25 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02418			X	X					
231	23 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02419			X	X					
232	23 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02420			X	X					
233	23 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02421				X		X			X
234	16 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02422			X	X					
235	16 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02423			X	X					
236	16 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02424				X				X	
237	16 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02425			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
238	24 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02426			X	X					
239	24 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02427			X	X					
240	24 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02428			X	X					
241	RINSATE	Jul 03, 2017		Water	M17-Jl02564			X						
242	TRIP	Jul 03, 2017		Water	M17-Jl02565		X							
Test Counts						35	1	204	222	2	2	6	4	6

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. All biota results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. 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 and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
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 & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. 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 Aroclor 1260 in Matrix Spikes and LCS.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Organophosphorus Pesticides							
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Triazines							
Atrazine	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1.0	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1.0	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1.0	Pass	
Pentachlorophenol	mg/kg	< 1			1.0	Pass	
Tetrachlorophenols - Total	mg/kg	< 1			1.0	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
NEPM 2013 Acid Herbicides							
Picloram*	mg/kg	< 0.5			0.5	Pass	
2.4-D	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
NEPM 2013 Organochlorine Pesticides							
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
% Clay	%	< 1			1	Pass	
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (free)	mg/kg	< 5			5	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride	mg/kg	< 100			100	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	80			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	98			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	89			70-130	Pass	
1.1.1-Trichloroethane	%	130			70-130	Pass	
1.2-Dichlorobenzene	%	99			70-130	Pass	
1.2-Dichloroethane	%	96			70-130	Pass	
Benzene	%	98			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
Toluene	%	96			70-130	Pass	
Trichloroethene	%	90			70-130	Pass	
Xylenes - Total	%	96			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	112			70-130	Pass	
TRH C6-C10	%	75			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	92			70-130	Pass	
Acenaphthylene	%	101			70-130	Pass	
Anthracene	%	92			70-130	Pass	
Benz(a)anthracene	%	102			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	%	92			70-130	Pass	
Benzo(g.h.i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	96			70-130	Pass	
Chrysene	%	95			70-130	Pass	
Dibenz(a.h)anthracene	%	97			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	98			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
4.4'-DDD	%	115			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	%	73			70-130	Pass	
a-BHC	%	91			70-130	Pass	
Aldrin	%	97			70-130	Pass	
b-BHC	%	92			70-130	Pass	
d-BHC	%	97			70-130	Pass	
Dieldrin	%	98			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	103			70-130	Pass	
Endosulfan sulphate	%	101			70-130	Pass	
Endrin	%	111			70-130	Pass	
Endrin aldehyde	%	97			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-BHC (Lindane)	%	90			70-130	Pass	
Heptachlor	%	95			70-130	Pass	
Heptachlor epoxide	%	94			70-130	Pass	
Hexachlorobenzene	%	88			70-130	Pass	
Methoxychlor	%	124			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	78			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	103			30-130	Pass	
2.4-Dichlorophenol	%	80			30-130	Pass	
2.4.5-Trichlorophenol	%	90			30-130	Pass	
2.4.6-Trichlorophenol	%	105			30-130	Pass	
2.6-Dichlorophenol	%	99			30-130	Pass	
4-Chloro-3-methylphenol	%	102			30-130	Pass	
Pentachlorophenol	%	32			30-130	Pass	
Tetrachlorophenols - Total	%	79			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	41			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	33			30-130	Pass	
2-Methylphenol (o-Cresol)	%	92			30-130	Pass	
2-Nitrophenol	%	86			30-130	Pass	
2.4-Dimethylphenol	%	104			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	96			30-130	Pass	
4-Nitrophenol	%	76			30-130	Pass	
Dinoseb	%	35			30-130	Pass	
Phenol	%	105			30-130	Pass	
LCS - % Recovery							
NEPM 2013 Acid Herbicides							
Picloram*	%	86			70-130	Pass	
2.4-D	%	76			70-130	Pass	
2.4.5-T	%	75			70-130	Pass	
MCPA	%	70			70-130	Pass	
Mecoprop	%	95			70-130	Pass	
LCS - % Recovery							
NEPM 2013 Organochlorine Pesticides							
Endosulfan sulphate	%	101			70-130	Pass	
4.4'-DDD	%	115			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	73			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aldrin	%	97			70-130	Pass	
Dieldrin	%	98			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	103			70-130	Pass	
Endrin	%	111			70-130	Pass	
Heptachlor	%	95			70-130	Pass	
Hexachlorobenzene	%	88			70-130	Pass	
Methoxychlor	%	113			70-130	Pass	
LCS - % Recovery							
% Clay	%	100			70-130	Pass	
Chromium (hexavalent)	%	99			70-130	Pass	
Cyanide (total)	%	91			70-130	Pass	
Fluoride	%	106			70-130	Pass	
Total Organic Carbon	%	92			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	84			80-120	Pass	
Arsenic	%	96			80-120	Pass	
Arsenic	%	95			80-120	Pass	
Beryllium	%	93			80-120	Pass	
Boron	%	89			80-120	Pass	
Cadmium	%	90			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	92			80-120	Pass	
Chromium	%	102			80-120	Pass	
Chromium	%	99			80-120	Pass	
Cobalt	%	90			80-120	Pass	
Copper	%	96			80-120	Pass	
Copper	%	101			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	89			80-120	Pass	
Lead	%	101			80-120	Pass	
Lead	%	99			80-120	Pass	
Manganese	%	96			80-120	Pass	
Mercury	%	80			75-125	Pass	
Mercury	%	88			75-125	Pass	
Mercury	%	85			75-125	Pass	
Molybdenum	%	91			80-120	Pass	
Nickel	%	92			80-120	Pass	
Nickel	%	104			80-120	Pass	
Nickel	%	100			80-120	Pass	
Selenium	%	81			80-120	Pass	
Selenium	%	92			80-120	Pass	
Silver	%	99			80-120	Pass	
Tin	%	90			80-120	Pass	
Zinc	%	90			80-120	Pass	
Zinc	%	101			80-120	Pass	
Zinc	%	97			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	B17-JI00945	NCP	%	72			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	B17-JI00945	NCP	%	94			70-130	Pass	
Toluene	B17-JI00945	NCP	%	80			70-130	Pass	
Ethylbenzene	B17-JI00945	NCP	%	109			70-130	Pass	
m&p-Xylenes	B17-JI00945	NCP	%	74			70-130	Pass	
o-Xylene	B17-JI00945	NCP	%	109			70-130	Pass	
Xylenes - Total	B17-JI00945	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	B17-JI00945	NCP	%	116			70-130	Pass	
TRH C6-C10	B17-JI00945	NCP	%	70			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-JI02192	CP	%	91			75-125	Pass	
Beryllium	M17-JI02192	CP	%	99			75-125	Pass	
Boron	M17-JI02192	CP	%	91			75-125	Pass	
Cadmium	M17-JI02192	CP	%	97			75-125	Pass	
Chromium	M17-JI02192	CP	%	89			75-125	Pass	
Cobalt	M17-JI02192	CP	%	88			75-125	Pass	
Copper	M17-JI02192	CP	%	113			75-125	Pass	
Lead	M17-JI02192	CP	%	84			75-125	Pass	
Manganese	M17-JI02192	CP	%	81			75-125	Pass	
Mercury	M17-JI02192	CP	%	87			70-130	Pass	
Molybdenum	M17-JI02192	CP	%	97			75-125	Pass	
Nickel	M17-JI02192	CP	%	89			75-125	Pass	
Selenium	M17-JI02192	CP	%	85			75-125	Pass	
Silver	M17-JI02192	CP	%	101			75-125	Pass	
Tin	M17-JI02192	CP	%	94			75-125	Pass	
Zinc	M17-JI02192	CP	%	86			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M17-JI02199	CP	%	99			70-130	Pass	
Acenaphthylene	M17-JI02199	CP	%	106			70-130	Pass	
Anthracene	M17-JI02199	CP	%	90			70-130	Pass	
Benz(a)anthracene	M17-JI02199	CP	%	113			70-130	Pass	
Benzo(a)pyrene	M17-JI02199	CP	%	116			70-130	Pass	
Benzo(b&j)fluoranthene	M17-JI02199	CP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	M17-JI02199	CP	%	114			70-130	Pass	
Benzo(k)fluoranthene	M17-JI02199	CP	%	109			70-130	Pass	
Chrysene	M17-JI02199	CP	%	100			70-130	Pass	
Dibenz(a.h)anthracene	M17-JI02199	CP	%	125			70-130	Pass	
Fluoranthene	M17-JI02199	CP	%	103			70-130	Pass	
Fluorene	M17-JI02199	CP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M17-JI02199	CP	%	111			70-130	Pass	
Naphthalene	M17-JI02199	CP	%	98			70-130	Pass	
Phenanthrene	M17-JI02199	CP	%	110			70-130	Pass	
Pyrene	M17-JI02199	CP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M17-JI02199	CP	%	104			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-Dichlorophenol	M17-Jl02199	CP	%	110			30-130	Pass	
2.4.5-Trichlorophenol	M17-Jl02199	CP	%	102			30-130	Pass	
2.4.6-Trichlorophenol	M17-Jl02199	CP	%	112			30-130	Pass	
2.6-Dichlorophenol	M17-Jl02199	CP	%	114			30-130	Pass	
4-Chloro-3-methylphenol	M17-Jl02199	CP	%	108			30-130	Pass	
Pentachlorophenol	M17-Jl02199	CP	%	56			30-130	Pass	
Tetrachlorophenols - Total	M17-Jl02199	CP	%	104			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M17-Jl02199	CP	%	39			30-130	Pass	
2-Methyl-4.6-dinitrophenol	M17-Jl02199	CP	%	35			30-130	Pass	
2-Methylphenol (o-Cresol)	M17-Jl02199	CP	%	107			30-130	Pass	
2-Nitrophenol	M17-Jl02199	CP	%	101			30-130	Pass	
2.4-Dimethylphenol	M17-Jl02199	CP	%	109			30-130	Pass	
2.4-Dinitrophenol	M17-Jl02199	CP	%	44			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M17-Jl02199	CP	%	103			30-130	Pass	
4-Nitrophenol	M17-Jl02199	CP	%	96			30-130	Pass	
Dinoseb	M17-Jl02199	CP	%	43			30-130	Pass	
Phenol	M17-Jl02199	CP	%	104			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02202	CP	%	86			75-125	Pass	
Beryllium	M17-Jl02202	CP	%	95			75-125	Pass	
Boron	M17-Jl02202	CP	%	91			75-125	Pass	
Cadmium	M17-Jl02202	CP	%	93			75-125	Pass	
Chromium	M17-Jl02202	CP	%	105			75-125	Pass	
Cobalt	M17-Jl02202	CP	%	89			75-125	Pass	
Copper	M17-Jl02202	CP	%	121			75-125	Pass	
Lead	M17-Jl02202	CP	%	112			75-125	Pass	
Manganese	M17-Jl02202	CP	%	144			75-125	Fail	Q08
Mercury	M17-Jl02202	CP	%	157			70-130	Fail	Q08
Molybdenum	M17-Jl02202	CP	%	99			75-125	Pass	
Nickel	M17-Jl02202	CP	%	91			75-125	Pass	
Selenium	M17-Jl02202	CP	%	81			75-125	Pass	
Silver	M17-Jl02202	CP	%	84			75-125	Pass	
Tin	M17-Jl02202	CP	%	76			75-125	Pass	
Zinc	M17-Jl02202	CP	%	176			75-125	Fail	Q08
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02212	CP	%	92			75-125	Pass	
Beryllium	M17-Jl02212	CP	%	99			75-125	Pass	
Boron	M17-Jl02212	CP	%	89			75-125	Pass	
Cadmium	M17-Jl02212	CP	%	96			75-125	Pass	
Chromium	M17-Jl02212	CP	%	96			75-125	Pass	
Cobalt	M17-Jl02212	CP	%	93			75-125	Pass	
Copper	M17-Jl02212	CP	%	106			75-125	Pass	
Lead	M17-Jl02212	CP	%	113			75-125	Pass	
Manganese	M17-Jl02212	CP	%	122			75-125	Pass	
Mercury	M17-Jl02212	CP	%	85			70-130	Pass	
Molybdenum	M17-Jl02212	CP	%	96			75-125	Pass	
Nickel	M17-Jl02212	CP	%	93			75-125	Pass	
Selenium	M17-Jl02212	CP	%	88			75-125	Pass	
Silver	M17-Jl02212	CP	%	98			75-125	Pass	
Tin	M17-Jl02212	CP	%	82			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc	M17-Jl02212	CP	%	115			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02226	CP	%	91			75-125	Pass	
Beryllium	M17-Jl02226	CP	%	95			75-125	Pass	
Boron	M17-Jl02226	CP	%	88			75-125	Pass	
Cadmium	M17-Jl02226	CP	%	94			75-125	Pass	
Chromium	M17-Jl02226	CP	%	91			75-125	Pass	
Cobalt	M17-Jl02226	CP	%	88			75-125	Pass	
Copper	M17-Jl02226	CP	%	103			75-125	Pass	
Lead	M17-Jl02226	CP	%	84			75-125	Pass	
Manganese	M17-Jl02226	CP	%	74			75-125	Fail	Q08
Mercury	M17-Jl02226	CP	%	118			70-130	Pass	
Molybdenum	M17-Jl02226	CP	%	93			75-125	Pass	
Nickel	M17-Jl02226	CP	%	89			75-125	Pass	
Selenium	M17-Jl02226	CP	%	84			75-125	Pass	
Silver	M17-Jl02226	CP	%	97			75-125	Pass	
Tin	M17-Jl02226	CP	%	107			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02239	CP	%	92			75-125	Pass	
Beryllium	M17-Jl02239	CP	%	102			75-125	Pass	
Boron	M17-Jl02239	CP	%	92			75-125	Pass	
Cadmium	M17-Jl02239	CP	%	97			75-125	Pass	
Chromium	M17-Jl02239	CP	%	97			75-125	Pass	
Cobalt	M17-Jl02239	CP	%	93			75-125	Pass	
Copper	M17-Jl02239	CP	%	103			75-125	Pass	
Lead	M17-Jl02239	CP	%	92			75-125	Pass	
Manganese	M17-Jl02239	CP	%	95			75-125	Pass	
Mercury	M17-Jl02239	CP	%	93			70-130	Pass	
Molybdenum	M17-Jl02239	CP	%	97			75-125	Pass	
Nickel	M17-Jl02239	CP	%	100			75-125	Pass	
Selenium	M17-Jl02239	CP	%	90			75-125	Pass	
Silver	M17-Jl02239	CP	%	98			75-125	Pass	
Tin	M17-Jl02239	CP	%	97			75-125	Pass	
Zinc	M17-Jl02239	CP	%	90			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02252	CP	%	80			75-125	Pass	
Beryllium	M17-Jl02252	CP	%	97			75-125	Pass	
Boron	M17-Jl02252	CP	%	86			75-125	Pass	
Cadmium	M17-Jl02252	CP	%	93			75-125	Pass	
Chromium	M17-Jl02252	CP	%	91			75-125	Pass	
Cobalt	M17-Jl02252	CP	%	89			75-125	Pass	
Copper	M17-Jl02252	CP	%	100			75-125	Pass	
Lead	M17-Jl02252	CP	%	79			75-125	Pass	
Manganese	M17-Jl02252	CP	%	88			75-125	Pass	
Mercury	M17-Jl02252	CP	%	100			70-130	Pass	
Molybdenum	M17-Jl02252	CP	%	92			75-125	Pass	
Nickel	M17-Jl02252	CP	%	86			75-125	Pass	
Selenium	M17-Jl02252	CP	%	84			75-125	Pass	
Silver	M17-Jl02252	CP	%	87			75-125	Pass	
Tin	M17-Jl02252	CP	%	70			75-125	Fail	Q08
Zinc	M17-Jl02252	CP	%	85			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	M17-Jl00347	NCP	%	107			70-130	Pass	
4.4'-DDE	M17-Jl00347	NCP	%	95			70-130	Pass	
4.4'-DDT	M17-Jl00347	NCP	%	94			70-130	Pass	
Aldrin	M17-Jl00347	NCP	%	93			70-130	Pass	
Dieldrin	M17-Jl00347	NCP	%	92			70-130	Pass	
Endosulfan I	M17-Jl00347	NCP	%	89			70-130	Pass	
Endosulfan II	M17-Jl00347	NCP	%	96			70-130	Pass	
Endosulfan sulphate	M17-Jl00347	NCP	%	100			70-130	Pass	
Endrin	M17-Jl00347	NCP	%	112			70-130	Pass	
Heptachlor	M17-Jl00347	NCP	%	95			70-130	Pass	
Hexachlorobenzene	M17-Jl00347	NCP	%	88			70-130	Pass	
Methoxychlor	M17-Jl00347	NCP	%	75			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	M17-Jl00276	NCP	%	93			70-130	Pass	
Spike - % Recovery									
NEPM 2013 Acid Herbicides				Result 1					
Picloram*	M17-Jn24238	NCP	%	84			70-130	Pass	
2.4-D	M17-Jn24238	NCP	%	71			70-130	Pass	
MCPA	M17-Jn24238	NCP	%	int			70-130	Fail	Q08
Spike - % Recovery									
NEPM 2013 Organochlorine Pesticides				Result 1					
Endosulfan sulphate	M17-Jl00347	NCP	%	100			70-130	Pass	
4.4'-DDD	M17-Jl00347	NCP	%	107			70-130	Pass	
4.4'-DDE	M17-Jl00347	NCP	%	95			70-130	Pass	
4.4'-DDT	M17-Jl00347	NCP	%	94			70-130	Pass	
Aldrin	M17-Jl00347	NCP	%	93			70-130	Pass	
Dieldrin	M17-Jl00347	NCP	%	92			70-130	Pass	
Endosulfan I	M17-Jl00347	NCP	%	89			70-130	Pass	
Endosulfan II	M17-Jl00347	NCP	%	96			70-130	Pass	
Endrin	M17-Jl00347	NCP	%	112			70-130	Pass	
Heptachlor	M17-Jl00347	NCP	%	95			70-130	Pass	
Hexachlorobenzene	M17-Jl00347	NCP	%	88			70-130	Pass	
Methoxychlor	M17-Jl00347	NCP	%	75			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M17-Jl02137	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02262	CP	%	95			75-125	Pass	
Beryllium	M17-Jl02262	CP	%	100			75-125	Pass	
Boron	M17-Jl02262	CP	%	82			75-125	Pass	
Cadmium	M17-Jl02262	CP	%	96			75-125	Pass	
Chromium	M17-Jl02262	CP	%	95			75-125	Pass	
Cobalt	M17-Jl02262	CP	%	90			75-125	Pass	
Copper	M17-Jl02262	CP	%	103			75-125	Pass	
Lead	M17-Jl02262	CP	%	82			75-125	Pass	
Manganese	M17-Jl02262	CP	%	85			75-125	Pass	
Mercury	M17-Jl02262	CP	%	98			70-130	Pass	
Molybdenum	M17-Jl02262	CP	%	95			75-125	Pass	
Nickel	M17-Jl02262	CP	%	84			75-125	Pass	
Selenium	M17-Jl02262	CP	%	85			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Silver	M17-Jl02262	CP	%	96			75-125	Pass	
Tin	M17-Jl02262	CP	%	95			75-125	Pass	
Zinc	M17-Jl02262	CP	%	93			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02273	CP	%	106			75-125	Pass	
Beryllium	M17-Jl02273	CP	%	97			75-125	Pass	
Boron	M17-Jl02273	CP	%	85			75-125	Pass	
Cadmium	M17-Jl02273	CP	%	93			75-125	Pass	
Chromium	M17-Jl02273	CP	%	99			75-125	Pass	
Cobalt	M17-Jl02273	CP	%	92			75-125	Pass	
Copper	M17-Jl02273	CP	%	103			75-125	Pass	
Lead	M17-Jl02273	CP	%	105			75-125	Pass	
Manganese	M17-Jl02273	CP	%	111			75-125	Pass	
Mercury	M17-Jl02273	CP	%	88			70-130	Pass	
Molybdenum	M17-Jl02273	CP	%	94			75-125	Pass	
Nickel	M17-Jl02273	CP	%	93			75-125	Pass	
Selenium	M17-Jl02273	CP	%	88			75-125	Pass	
Silver	M17-Jl02273	CP	%	94			75-125	Pass	
Tin	M17-Jl02273	CP	%	95			75-125	Pass	
Zinc	M17-Jl02273	CP	%	97			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02285	CP	%	96			75-125	Pass	
Beryllium	M17-Jl02285	CP	%	104			75-125	Pass	
Boron	M17-Jl02285	CP	%	88			75-125	Pass	
Cadmium	M17-Jl02285	CP	%	98			75-125	Pass	
Chromium	M17-Jl02285	CP	%	100			75-125	Pass	
Cobalt	M17-Jl02285	CP	%	97			75-125	Pass	
Copper	M17-Jl02285	CP	%	55			75-125	Fail	Q08
Lead	M17-Jl02285	CP	%	119			75-125	Pass	
Manganese	M17-Jl02285	CP	%	115			75-125	Pass	
Mercury	M17-Jl02285	CP	%	89			70-130	Pass	
Molybdenum	M17-Jl02285	CP	%	99			75-125	Pass	
Nickel	M17-Jl02285	CP	%	104			75-125	Pass	
Selenium	M17-Jl02285	CP	%	96			75-125	Pass	
Silver	M17-Jl02285	CP	%	97			75-125	Pass	
Tin	M17-Jl02285	CP	%	97			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02295	CP	%	91			75-125	Pass	
Beryllium	M17-Jl02295	CP	%	99			75-125	Pass	
Boron	M17-Jl02295	CP	%	88			75-125	Pass	
Cadmium	M17-Jl02295	CP	%	98			75-125	Pass	
Chromium	M17-Jl02295	CP	%	98			75-125	Pass	
Cobalt	M17-Jl02295	CP	%	95			75-125	Pass	
Copper	M17-Jl02295	CP	%	86			75-125	Pass	
Lead	M17-Jl02295	CP	%	93			75-125	Pass	
Manganese	M17-Jl02295	CP	%	102			75-125	Pass	
Mercury	M17-Jl02295	CP	%	90			70-130	Pass	
Molybdenum	M17-Jl02295	CP	%	97			75-125	Pass	
Nickel	M17-Jl02295	CP	%	96			75-125	Pass	
Selenium	M17-Jl02295	CP	%	85			75-125	Pass	
Silver	M17-Jl02295	CP	%	109			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tin	M17-Jl02295	CP	%	89			75-125	Pass	
Zinc	M17-Jl02295	CP	%	103			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02307	CP	%	86			75-125	Pass	
Beryllium	M17-Jl02307	CP	%	93			75-125	Pass	
Boron	M17-Jl02307	CP	%	86			75-125	Pass	
Cadmium	M17-Jl02307	CP	%	94			75-125	Pass	
Chromium	M17-Jl02307	CP	%	91			75-125	Pass	
Cobalt	M17-Jl02307	CP	%	85			75-125	Pass	
Copper	M17-Jl02307	CP	%	93			75-125	Pass	
Lead	M17-Jl02307	CP	%	90			75-125	Pass	
Mercury	M17-Jl02307	CP	%	95			70-130	Pass	
Molybdenum	M17-Jl02307	CP	%	91			75-125	Pass	
Nickel	M17-Jl02307	CP	%	89			75-125	Pass	
Selenium	M17-Jl02307	CP	%	85			75-125	Pass	
Silver	M17-Jl02307	CP	%	121			75-125	Pass	
Tin	M17-Jl02307	CP	%	84			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02319	CP	%	97			75-125	Pass	
Beryllium	M17-Jl02319	CP	%	107			75-125	Pass	
Boron	M17-Jl02319	CP	%	93			75-125	Pass	
Cadmium	M17-Jl02319	CP	%	100			75-125	Pass	
Chromium	M17-Jl02319	CP	%	102			75-125	Pass	
Cobalt	M17-Jl02319	CP	%	100			75-125	Pass	
Copper	M17-Jl02319	CP	%	108			75-125	Pass	
Lead	M17-Jl02319	CP	%	114			75-125	Pass	
Manganese	M17-Jl02319	CP	%	101			75-125	Pass	
Mercury	M17-Jl02319	CP	%	86			70-130	Pass	
Molybdenum	M17-Jl02319	CP	%	102			75-125	Pass	
Nickel	M17-Jl02319	CP	%	102			75-125	Pass	
Selenium	M17-Jl02319	CP	%	96			75-125	Pass	
Silver	M17-Jl02319	CP	%	98			75-125	Pass	
Tin	M17-Jl02319	CP	%	102			75-125	Pass	
Zinc	M17-Jl02319	CP	%	105			75-125	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M17-Jl02140	NCP	%	75			70-130	Pass	
1.1.1-Trichloroethane	M17-Jl02140	NCP	%	99			70-130	Pass	
1.2-Dichlorobenzene	M17-Jl02140	NCP	%	113			70-130	Pass	
1.2-Dichloroethane	M17-Jl02140	NCP	%	101			70-130	Pass	
Trichloroethene	M17-Jl02140	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
a-BHC	M17-Jl00347	NCP	%	89			70-130	Pass	
b-BHC	M17-Jl00347	NCP	%	84			70-130	Pass	
d-BHC	M17-Jl00347	NCP	%	97			70-130	Pass	
Endrin aldehyde	M17-Jl00347	NCP	%	93			70-130	Pass	
Endrin ketone	M17-Jl00347	NCP	%	98			70-130	Pass	
g-BHC (Lindane)	M17-Jl00347	NCP	%	87			70-130	Pass	
Heptachlor epoxide	M17-Jl00347	NCP	%	89			70-130	Pass	
Spike - % Recovery									
				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cyanide (total)	M17-Jl03679	NCP	%	27			70-130	Fail	Q08
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02330	CP	%	77			75-125	Pass	
Beryllium	M17-Jl02330	CP	%	106			75-125	Pass	
Boron	M17-Jl02330	CP	%	92			75-125	Pass	
Cadmium	M17-Jl02330	CP	%	101			75-125	Pass	
Chromium	M17-Jl02330	CP	%	98			75-125	Pass	
Cobalt	M17-Jl02330	CP	%	99			75-125	Pass	
Copper	M17-Jl02330	CP	%	108			75-125	Pass	
Lead	M17-Jl02330	CP	%	94			75-125	Pass	
Manganese	M17-Jl02330	CP	%	101			75-125	Pass	
Mercury	M17-Jl02330	CP	%	99			70-130	Pass	
Molybdenum	M17-Jl02330	CP	%	100			75-125	Pass	
Nickel	M17-Jl02330	CP	%	102			75-125	Pass	
Selenium	M17-Jl02330	CP	%	97			75-125	Pass	
Silver	M17-Jl02330	CP	%	99			75-125	Pass	
Tin	M17-Jl02330	CP	%	107			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02340	CP	%	91			75-125	Pass	
Beryllium	M17-Jl02340	CP	%	108			75-125	Pass	
Boron	M17-Jl02340	CP	%	91			75-125	Pass	
Cadmium	M17-Jl02340	CP	%	101			75-125	Pass	
Chromium	M17-Jl02340	CP	%	105			75-125	Pass	
Cobalt	M17-Jl02340	CP	%	100			75-125	Pass	
Copper	M17-Jl02340	CP	%	106			75-125	Pass	
Lead	M17-Jl02340	CP	%	101			75-125	Pass	
Manganese	M17-Jl02340	CP	%	101			75-125	Pass	
Mercury	M17-Jl02340	CP	%	92			70-130	Pass	
Molybdenum	M17-Jl02340	CP	%	102			75-125	Pass	
Nickel	M17-Jl02340	CP	%	104			75-125	Pass	
Selenium	M17-Jl02340	CP	%	92			75-125	Pass	
Silver	M17-Jl02340	CP	%	97			75-125	Pass	
Tin	M17-Jl02340	CP	%	100			75-125	Pass	
Zinc	M17-Jl02340	CP	%	103			75-125	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M17-Jl03673	NCP	%	31			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02351	CP	%	91			75-125	Pass	
Beryllium	M17-Jl02351	CP	%	108			75-125	Pass	
Boron	M17-Jl02351	CP	%	96			75-125	Pass	
Cadmium	M17-Jl02351	CP	%	99			75-125	Pass	
Chromium	M17-Jl02351	CP	%	102			75-125	Pass	
Cobalt	M17-Jl02351	CP	%	101			75-125	Pass	
Copper	M17-Jl02351	CP	%	105			75-125	Pass	
Lead	M17-Jl02351	CP	%	100			75-125	Pass	
Manganese	M17-Jl02351	CP	%	102			75-125	Pass	
Mercury	M17-Jl02351	CP	%	106			70-130	Pass	
Molybdenum	M17-Jl02351	CP	%	102			75-125	Pass	
Nickel	M17-Jl02351	CP	%	102			75-125	Pass	
Selenium	M17-Jl02351	CP	%	94			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Silver	M17-Jl02351	CP	%	88			75-125	Pass	
Tin	M17-Jl02351	CP	%	101			75-125	Pass	
Zinc	M17-Jl02351	CP	%	100			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02361	CP	%	94			75-125	Pass	
Beryllium	M17-Jl02361	CP	%	110			75-125	Pass	
Boron	M17-Jl02361	CP	%	96			75-125	Pass	
Cadmium	M17-Jl02361	CP	%	101			75-125	Pass	
Chromium	M17-Jl02361	CP	%	103			75-125	Pass	
Cobalt	M17-Jl02361	CP	%	102			75-125	Pass	
Copper	M17-Jl02361	CP	%	108			75-125	Pass	
Lead	M17-Jl02361	CP	%	102			75-125	Pass	
Manganese	M17-Jl02361	CP	%	101			75-125	Pass	
Mercury	M17-Jl02361	CP	%	88			70-130	Pass	
Molybdenum	M17-Jl02361	CP	%	103			75-125	Pass	
Nickel	M17-Jl02361	CP	%	104			75-125	Pass	
Selenium	M17-Jl02361	CP	%	95			75-125	Pass	
Silver	M17-Jl02361	CP	%	99			75-125	Pass	
Tin	M17-Jl02361	CP	%	104			75-125	Pass	
Zinc	M17-Jl02361	CP	%	100			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M17-Jl02369	CP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M17-Jl02369	CP	%	124			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02372	CP	%	109			75-125	Pass	
Beryllium	M17-Jl02372	CP	%	107			75-125	Pass	
Boron	M17-Jl02372	CP	%	93			75-125	Pass	
Cadmium	M17-Jl02372	CP	%	102			75-125	Pass	
Chromium	M17-Jl02372	CP	%	104			75-125	Pass	
Cobalt	M17-Jl02372	CP	%	99			75-125	Pass	
Copper	M17-Jl02372	CP	%	110			75-125	Pass	
Lead	M17-Jl02372	CP	%	173			75-125	Fail	Q08
Manganese	M17-Jl02372	CP	%	69			75-125	Fail	Q08
Mercury	M17-Jl02372	CP	%	89			70-130	Pass	
Molybdenum	M17-Jl02372	CP	%	103			75-125	Pass	
Nickel	M17-Jl02372	CP	%	99			75-125	Pass	
Selenium	M17-Jl02372	CP	%	99			75-125	Pass	
Silver	M17-Jl02372	CP	%	90			75-125	Pass	
Tin	M17-Jl02372	CP	%	113			75-125	Pass	
Zinc	M17-Jl02372	CP	%	82			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M17-Jl02381	CP	%	96			70-130	Pass	
Acenaphthylene	M17-Jl02381	CP	%	102			70-130	Pass	
Anthracene	M17-Jl02381	CP	%	93			70-130	Pass	
Benz(a)anthracene	M17-Jl02381	CP	%	109			70-130	Pass	
Benzo(a)pyrene	M17-Jl02381	CP	%	111			70-130	Pass	
Benzo(b&j)fluoranthene	M17-Jl02381	CP	%	102			70-130	Pass	
Benzo(g.h.i)perylene	M17-Jl02381	CP	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	M17-Jl02381	CP	%	113			70-130	Pass	
Chrysene	M17-Jl02381	CP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	M17-Jl02381	CP	%	127			70-130	Pass	
Fluoranthene	M17-Jl02381	CP	%	99			70-130	Pass	
Fluorene	M17-Jl02381	CP	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M17-Jl02381	CP	%	93			70-130	Pass	
Naphthalene	M17-Jl02381	CP	%	95			70-130	Pass	
Phenanthrene	M17-Jl02381	CP	%	110			70-130	Pass	
Pyrene	M17-Jl02381	CP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M17-Jl02381	CP	%	100			30-130	Pass	
2.4-Dichlorophenol	M17-Jl02381	CP	%	104			30-130	Pass	
2.4.5-Trichlorophenol	M17-Jl02381	CP	%	102			30-130	Pass	
2.4.6-Trichlorophenol	M17-Jl02381	CP	%	108			30-130	Pass	
2.6-Dichlorophenol	M17-Jl02381	CP	%	111			30-130	Pass	
4-Chloro-3-methylphenol	M17-Jl02381	CP	%	101			30-130	Pass	
Pentachlorophenol	M17-Jl02381	CP	%	73			30-130	Pass	
Tetrachlorophenols - Total	M17-Jl02381	CP	%	107			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Methyl-4.6-dinitrophenol	M17-Jl02381	CP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M17-Jl02381	CP	%	101			30-130	Pass	
2-Nitrophenol	M17-Jl02381	CP	%	92			30-130	Pass	
2.4-Dimethylphenol	M17-Jl02381	CP	%	100			30-130	Pass	
2.4-Dinitrophenol	M17-Jl02381	CP	%	40			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M17-Jl02381	CP	%	101			30-130	Pass	
4-Nitrophenol	M17-Jl02381	CP	%	85			30-130	Pass	
Dinoseb	M17-Jl02381	CP	%	43			30-130	Pass	
Phenol	M17-Jl02381	CP	%	99			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02383	CP	%	99			75-125	Pass	
Beryllium	M17-Jl02383	CP	%	105			75-125	Pass	
Boron	M17-Jl02383	CP	%	93			75-125	Pass	
Cadmium	M17-Jl02383	CP	%	100			75-125	Pass	
Chromium	M17-Jl02383	CP	%	106			75-125	Pass	
Cobalt	M17-Jl02383	CP	%	94			75-125	Pass	
Copper	M17-Jl02383	CP	%	108			75-125	Pass	
Lead	M17-Jl02383	CP	%	87			75-125	Pass	
Mercury	M17-Jl02383	CP	%	90			70-130	Pass	
Molybdenum	M17-Jl02383	CP	%	99			75-125	Pass	
Nickel	M17-Jl02383	CP	%	106			75-125	Pass	
Selenium	M17-Jl02383	CP	%	101			75-125	Pass	
Silver	M17-Jl02383	CP	%	100			75-125	Pass	
Tin	M17-Jl02383	CP	%	98			75-125	Pass	
Zinc	M17-Jl02383	CP	%	85			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02395	CP	%	96			75-125	Pass	
Beryllium	M17-Jl02395	CP	%	106			75-125	Pass	
Boron	M17-Jl02395	CP	%	89			75-125	Pass	
Cadmium	M17-Jl02395	CP	%	102			75-125	Pass	
Chromium	M17-Jl02395	CP	%	96			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cobalt	M17-Jl02395	CP	%	96			75-125	Pass	
Copper	M17-Jl02395	CP	%	105			75-125	Pass	
Lead	M17-Jl02395	CP	%	96			75-125	Pass	
Manganese	M17-Jl02395	CP	%	62			75-125	Fail	Q08
Mercury	M17-Jl02395	CP	%	86			70-130	Pass	
Molybdenum	M17-Jl02395	CP	%	99			75-125	Pass	
Nickel	M17-Jl02395	CP	%	89			75-125	Pass	
Selenium	M17-Jl02395	CP	%	96			75-125	Pass	
Silver	M17-Jl02395	CP	%	103			75-125	Pass	
Tin	M17-Jl02395	CP	%	91			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02405	CP	%	91			75-125	Pass	
Beryllium	M17-Jl02405	CP	%	107			75-125	Pass	
Boron	M17-Jl02405	CP	%	93			75-125	Pass	
Cadmium	M17-Jl02405	CP	%	99			75-125	Pass	
Chromium	M17-Jl02405	CP	%	102			75-125	Pass	
Cobalt	M17-Jl02405	CP	%	101			75-125	Pass	
Copper	M17-Jl02405	CP	%	106			75-125	Pass	
Lead	M17-Jl02405	CP	%	101			75-125	Pass	
Manganese	M17-Jl02405	CP	%	102			75-125	Pass	
Mercury	M17-Jl02405	CP	%	93			70-130	Pass	
Molybdenum	M17-Jl02405	CP	%	101			75-125	Pass	
Nickel	M17-Jl02405	CP	%	103			75-125	Pass	
Selenium	M17-Jl02405	CP	%	93			75-125	Pass	
Silver	M17-Jl02405	CP	%	97			75-125	Pass	
Tin	M17-Jl02405	CP	%	101			75-125	Pass	
Zinc	M17-Jl02405	CP	%	98			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02415	CP	%	104			75-125	Pass	
Beryllium	M17-Jl02415	CP	%	104			75-125	Pass	
Boron	M17-Jl02415	CP	%	89			75-125	Pass	
Cadmium	M17-Jl02415	CP	%	99			75-125	Pass	
Chromium	M17-Jl02415	CP	%	101			75-125	Pass	
Cobalt	M17-Jl02415	CP	%	95			75-125	Pass	
Copper	M17-Jl02415	CP	%	118			75-125	Pass	
Lead	M17-Jl02415	CP	%	108			75-125	Pass	
Mercury	M17-Jl02415	CP	%	94			70-130	Pass	
Molybdenum	M17-Jl02415	CP	%	98			75-125	Pass	
Nickel	M17-Jl02415	CP	%	100			75-125	Pass	
Selenium	M17-Jl02415	CP	%	99			75-125	Pass	
Silver	M17-Jl02415	CP	%	100			75-125	Pass	
Tin	M17-Jl02415	CP	%	97			75-125	Pass	
Zinc	M17-Jl02415	CP	%	113			75-125	Pass	
Spike - % Recovery									
				Result 1					
Fluoride	M17-Jl02424	CP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl02425	CP	%	93			75-125	Pass	
Beryllium	M17-Jl02425	CP	%	113			75-125	Pass	
Boron	M17-Jl02425	CP	%	94			75-125	Pass	
Cadmium	M17-Jl02425	CP	%	102			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	M17-Jl02425	CP	%	108			75-125	Pass	
Cobalt	M17-Jl02425	CP	%	99			75-125	Pass	
Copper	M17-Jl02425	CP	%	111			75-125	Pass	
Lead	M17-Jl02425	CP	%	101			75-125	Pass	
Manganese	M17-Jl02425	CP	%	93			75-125	Pass	
Mercury	M17-Jl02425	CP	%	95			70-130	Pass	
Molybdenum	M17-Jl02425	CP	%	99			75-125	Pass	
Nickel	M17-Jl02425	CP	%	101			75-125	Pass	
Selenium	M17-Jl02425	CP	%	96			75-125	Pass	
Silver	M17-Jl02425	CP	%	97			75-125	Pass	
Tin	M17-Jl02425	CP	%	99			75-125	Pass	
Zinc	M17-Jl02425	CP	%	100			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02191	CP	mg/kg	14	13	9.0	30%	Pass	
Beryllium	M17-Jl02191	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02191	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02191	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02191	CP	mg/kg	34	33	1.0	30%	Pass	
Cobalt	M17-Jl02191	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02191	CP	mg/kg	12	13	10	30%	Pass	
Lead	M17-Jl02191	CP	mg/kg	34	32	7.0	30%	Pass	
Manganese	M17-Jl02191	CP	mg/kg	51	45	13	30%	Pass	
Mercury	M17-Jl02191	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02191	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02191	CP	mg/kg	13	13	1.0	30%	Pass	
Selenium	M17-Jl02191	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02191	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02191	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02191	CP	mg/kg	59	51	14	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02192	CP	mg/kg	3.9	3.3	18	30%	Pass	
Beryllium	M17-Jl02192	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02192	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02192	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02192	CP	mg/kg	24	24	1.0	30%	Pass	
Cobalt	M17-Jl02192	CP	mg/kg	7.4	7.6	2.0	30%	Pass	
Copper	M17-Jl02192	CP	mg/kg	19	19	<1	30%	Pass	
Lead	M17-Jl02192	CP	mg/kg	20	20	1.0	30%	Pass	
Manganese	M17-Jl02192	CP	mg/kg	190	190	4.0	30%	Pass	
Mercury	M17-Jl02192	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02192	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02192	CP	mg/kg	32	33	2.0	30%	Pass	
Selenium	M17-Jl02192	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02192	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02192	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02192	CP	mg/kg	36	37	4.0	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M17-Jl02195	CP	mg/kg	1.1	1.1	1.0	30%	Pass	
Benzo(a)pyrene	M17-Jl02195	CP	mg/kg	1.3	1.2	11	30%	Pass	
Benzo(b&j)fluoranthene	M17-Jl02195	CP	mg/kg	1.1	1.3	17	30%	Pass	
Benzo(g.h.i)perylene	M17-Jl02195	CP	mg/kg	1.2	1.0	21	30%	Pass	
Benzo(k)fluoranthene	M17-Jl02195	CP	mg/kg	1.2	1.0	23	30%	Pass	
Chrysene	M17-Jl02195	CP	mg/kg	1.3	1.3	7.0	30%	Pass	
Dibenz(a.h)anthracene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M17-Jl02195	CP	mg/kg	1.9	2.1	9.0	30%	Pass	
Fluorene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M17-Jl02195	CP	mg/kg	0.8	0.7	14	30%	Pass	
Naphthalene	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M17-Jl02195	CP	mg/kg	1.0	1.3	34	30%	Fail	Q15
Pyrene	M17-Jl02195	CP	mg/kg	1.9	2.1	5.0	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M17-Jl02195	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M17-Jl02195	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M17-Jl02195	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Nitrophenol	M17-Jl02195	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M17-Jl02195	CP	mg/kg	< 5	< 5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M17-Jl02195	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M17-Jl02195	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M17-Jl02195	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M17-Jl02195	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02198	CP	%	8.4	8.8	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M17-Jl02201	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02202	CP	mg/kg	6.6	7.1	7.0	30%	Pass	
Beryllium	M17-Jl02202	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02202	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02202	CP	mg/kg	0.6	0.6	<1	30%	Pass	
Chromium	M17-Jl02202	CP	mg/kg	19	19	1.0	30%	Pass	
Cobalt	M17-Jl02202	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02202	CP	mg/kg	27	27	<1	30%	Pass	
Lead	M17-Jl02202	CP	mg/kg	68	69	1.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Manganese	M17-Jl02202	CP	mg/kg	76	74	3.0	30%	Pass	
Mercury	M17-Jl02202	CP	mg/kg	2.6	2.2	17	30%	Pass	
Molybdenum	M17-Jl02202	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02202	CP	mg/kg	15	15	1.0	30%	Pass	
Selenium	M17-Jl02202	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02202	CP	mg/kg	0.8	0.8	2.0	30%	Pass	
Tin	M17-Jl02202	CP	mg/kg	13	13	2.0	30%	Pass	
Zinc	M17-Jl02202	CP	mg/kg	110	110	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02208	CP	%	11	11	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02211	CP	mg/kg	5.2	4.7	11	30%	Pass	
Beryllium	M17-Jl02211	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02211	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02211	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02211	CP	mg/kg	13	11	13	30%	Pass	
Cobalt	M17-Jl02211	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02211	CP	mg/kg	29	24	17	30%	Pass	
Lead	M17-Jl02211	CP	mg/kg	140	130	5.0	30%	Pass	
Manganese	M17-Jl02211	CP	mg/kg	79	68	15	30%	Pass	
Mercury	M17-Jl02211	CP	mg/kg	0.1	0.1	13	30%	Pass	
Molybdenum	M17-Jl02211	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02211	CP	mg/kg	12	11	11	30%	Pass	
Selenium	M17-Jl02211	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02211	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02211	CP	mg/kg	17	16	9.0	30%	Pass	
Zinc	M17-Jl02211	CP	mg/kg	200	170	17	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02212	CP	mg/kg	4.0	3.8	4.0	30%	Pass	
Beryllium	M17-Jl02212	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02212	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02212	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02212	CP	mg/kg	7.6	7.7	1.0	30%	Pass	
Cobalt	M17-Jl02212	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02212	CP	mg/kg	13	13	1.0	30%	Pass	
Lead	M17-Jl02212	CP	mg/kg	53	53	1.0	30%	Pass	
Manganese	M17-Jl02212	CP	mg/kg	47	46	1.0	30%	Pass	
Mercury	M17-Jl02212	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02212	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02212	CP	mg/kg	10	10	1.0	30%	Pass	
Selenium	M17-Jl02212	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02212	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02212	CP	mg/kg	26	26	<1	30%	Pass	
Zinc	M17-Jl02212	CP	mg/kg	64	64	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02220	CP	%	12	14	11	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M17-Jl02224	CP	mg/kg	< 0.1	0.1	32	30%	Fail	Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02226	CP	mg/kg	4.7	4.5	5.0	30%	Pass	
Beryllium	M17-Jl02226	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02226	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02226	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02226	CP	mg/kg	10	10	<1	30%	Pass	
Cobalt	M17-Jl02226	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02226	CP	mg/kg	14	14	<1	30%	Pass	
Lead	M17-Jl02226	CP	mg/kg	39	39	<1	30%	Pass	
Manganese	M17-Jl02226	CP	mg/kg	100	100	1.0	30%	Pass	
Mercury	M17-Jl02226	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02226	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02226	CP	mg/kg	15	15	<1	30%	Pass	
Selenium	M17-Jl02226	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02226	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02226	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02234	CP	%	5.7	5.7	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02239	CP	mg/kg	2.1	2.4	15	30%	Pass	
Beryllium	M17-Jl02239	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02239	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02239	CP	mg/kg	0.8	0.8	<1	30%	Pass	
Chromium	M17-Jl02239	CP	mg/kg	8.1	8.1	<1	30%	Pass	
Cobalt	M17-Jl02239	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02239	CP	mg/kg	7.7	7.8	1.0	30%	Pass	
Lead	M17-Jl02239	CP	mg/kg	23	24	2.0	30%	Pass	
Manganese	M17-Jl02239	CP	mg/kg	33	33	<1	30%	Pass	
Mercury	M17-Jl02239	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02239	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02239	CP	mg/kg	5.9	6.0	1.0	30%	Pass	
Selenium	M17-Jl02239	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02239	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02239	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02239	CP	mg/kg	65	65	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02247	CP	%	12	11	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02250	CP	mg/kg	4.3	4.5	5.0	30%	Pass	
Beryllium	M17-Jl02250	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02250	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02250	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02250	CP	mg/kg	8.6	10	17	30%	Pass	
Cobalt	M17-Jl02250	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02250	CP	mg/kg	12	13	11	30%	Pass	
Lead	M17-Jl02250	CP	mg/kg	40	49	18	30%	Pass	
Manganese	M17-Jl02250	CP	mg/kg	48	49	2.0	30%	Pass	
Molybdenum	M17-Jl02250	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02250	CP	mg/kg	9.3	7.7	19	30%	Pass	
Selenium	M17-Jl02250	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02250	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Tin	M17-Jl02250	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02250	CP	mg/kg	50	46	9.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02252	CP	mg/kg	9.6	9.3	3.0	30%	Pass	
Beryllium	M17-Jl02252	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02252	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02252	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02252	CP	mg/kg	14	14	<1	30%	Pass	
Cobalt	M17-Jl02252	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02252	CP	mg/kg	15	15	1.0	30%	Pass	
Lead	M17-Jl02252	CP	mg/kg	44	44	1.0	30%	Pass	
Manganese	M17-Jl02252	CP	mg/kg	92	91	1.0	30%	Pass	
Molybdenum	M17-Jl02252	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02252	CP	mg/kg	18	18	<1	30%	Pass	
Selenium	M17-Jl02252	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02252	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02252	CP	mg/kg	24	24	<1	30%	Pass	
Zinc	M17-Jl02252	CP	mg/kg	53	53	1.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M17-Jl01218	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Chlorpyrifos	M17-Jl03715	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M17-Jl01218	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Triazines				Result 1	Result 2	RPD			
Atrazine	M17-Jl03715	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
Pentachlorophenol	B17-Jl04812	NCP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Methylphenol (o-Cresol)	B17-Jl04812	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	B17-Jl04812	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Phenol	B17-Jl04812	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
NEPM 2013 Acid Herbicides				Result 1	Result 2	RPD			
Picloram*	M17-Jl05364	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-D	M17-Jl05364	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	M17-Jl00100	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	M17-Jl05364	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	M17-Jl00100	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	M17-Jl00100	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
NEPM 2013 Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan sulphate	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
4.4'-DDD	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
4.4'-DDE	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
4.4'-DDT	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Aldrin	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Chlordanes - Total	M17-Jl01218	NCP	mg/kg	< 0.1	**	<1	30%	Pass	
Dieldrin	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Endosulfan I	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Endosulfan II	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Endrin	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Heptachlor	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Hexachlorobenzene	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Methoxychlor	M17-Jl01218	NCP	mg/kg	< 0.05	**	<1	30%	Pass	
Toxaphene	M17-Jl01218	NCP	mg/kg	< 1	**	<1	30%	Pass	
Duplicate									
NEPM 2013 Phenols				Result 1	Result 2	RPD			
2-Methylphenol (o-Cresol)	B17-Jl04812	NCP	mg/kg	< 0.2	**	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	B17-Jl04812	NCP	mg/kg	< 0.4	**	<1	30%	Pass	
Pentachlorophenol	B17-Jl04812	NCP	mg/kg	< 1	**	<1	30%	Pass	
Phenol	B17-Jl04812	NCP	mg/kg	< 0.5	**	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M17-Jl04338	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Cyanide (total)	M17-Jl02254	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02258	CP	%	13	12	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02261	CP	mg/kg	3.9	3.5	12	30%	Pass	
Beryllium	M17-Jl02261	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02261	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02261	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02261	CP	mg/kg	6.6	6.9	4.0	30%	Pass	
Cobalt	M17-Jl02261	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02261	CP	mg/kg	11	11	1.0	30%	Pass	
Lead	M17-Jl02261	CP	mg/kg	34	31	10	30%	Pass	
Manganese	M17-Jl02261	CP	mg/kg	44	40	10	30%	Pass	
Molybdenum	M17-Jl02261	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02261	CP	mg/kg	7.8	7.5	5.0	30%	Pass	
Selenium	M17-Jl02261	CP	mg/kg	< 2	< 2	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Silver	M17-Jl02261	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02261	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02261	CP	mg/kg	49	50	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02262	CP	mg/kg	4.7	5.0	6.0	30%	Pass	
Beryllium	M17-Jl02262	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02262	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02262	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02262	CP	mg/kg	13	13	3.0	30%	Pass	
Cobalt	M17-Jl02262	CP	mg/kg	< 5	5.0	3.0	30%	Pass	
Copper	M17-Jl02262	CP	mg/kg	18	18	1.0	30%	Pass	
Lead	M17-Jl02262	CP	mg/kg	97	99	3.0	30%	Pass	
Manganese	M17-Jl02262	CP	mg/kg	85	84	<1	30%	Pass	
Mercury	M17-Jl02262	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02262	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02262	CP	mg/kg	19	20	3.0	30%	Pass	
Selenium	M17-Jl02262	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02262	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02262	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02262	CP	mg/kg	55	55	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02268	CP	%	8.1	8.5	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02272	CP	mg/kg	2.5	2.5	3.0	30%	Pass	
Beryllium	M17-Jl02272	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02272	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02272	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02272	CP	mg/kg	9.8	10.0	2.0	30%	Pass	
Cobalt	M17-Jl02272	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02272	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02272	CP	mg/kg	8.5	9.7	13	30%	Pass	
Manganese	M17-Jl02272	CP	mg/kg	11	11	2.0	30%	Pass	
Mercury	M17-Jl02272	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02272	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02272	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02272	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02272	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02272	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02272	CP	mg/kg	7.6	9.0	17	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02273	CP	mg/kg	5.7	5.8	2.0	30%	Pass	
Beryllium	M17-Jl02273	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02273	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02273	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02273	CP	mg/kg	8.8	8.9	1.0	30%	Pass	
Cobalt	M17-Jl02273	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02273	CP	mg/kg	9.5	9.7	2.0	30%	Pass	
Lead	M17-Jl02273	CP	mg/kg	29	29	<1	30%	Pass	
Manganese	M17-Jl02273	CP	mg/kg	33	33	<1	30%	Pass	
Mercury	M17-Jl02273	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Molybdenum	M17-Jl02273	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02273	CP	mg/kg	8.1	8.3	2.0	30%	Pass	
Selenium	M17-Jl02273	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02273	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02273	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02273	CP	mg/kg	41	40	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02281	CP	%	8.9	9.5	6.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02285	CP	mg/kg	4.5	4.5	<1	30%	Pass	
Beryllium	M17-Jl02285	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02285	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02285	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02285	CP	mg/kg	9.5	9.6	1.0	30%	Pass	
Cobalt	M17-Jl02285	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02285	CP	mg/kg	47	47	1.0	30%	Pass	
Lead	M17-Jl02285	CP	mg/kg	73	73	<1	30%	Pass	
Manganese	M17-Jl02285	CP	mg/kg	50	50	1.0	30%	Pass	
Mercury	M17-Jl02285	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02285	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02285	CP	mg/kg	7.4	7.4	<1	30%	Pass	
Selenium	M17-Jl02285	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02285	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02285	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02285	CP	mg/kg	170	170	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02291	CP	%	7.7	6.5	18	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02295	CP	mg/kg	2.5	2.4	6.0	30%	Pass	
Beryllium	M17-Jl02295	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02295	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02295	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02295	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02295	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02295	CP	mg/kg	14	14	3.0	30%	Pass	
Lead	M17-Jl02295	CP	mg/kg	28	28	<1	30%	Pass	
Manganese	M17-Jl02295	CP	mg/kg	18	19	1.0	30%	Pass	
Mercury	M17-Jl02295	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02295	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02295	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02295	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02295	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02295	CP	mg/kg	13	13	1.0	30%	Pass	
Zinc	M17-Jl02295	CP	mg/kg	49	49	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02303	CP	%	7.2	7.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M17-Jl02306	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02307	CP	mg/kg	2.3	2.3	1.0	30%	Pass	
Beryllium	M17-Jl02307	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02307	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02307	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02307	CP	mg/kg	11	11	<1	30%	Pass	
Cobalt	M17-Jl02307	CP	mg/kg	7.8	7.9	1.0	30%	Pass	
Copper	M17-Jl02307	CP	mg/kg	15	15	1.0	30%	Pass	
Lead	M17-Jl02307	CP	mg/kg	22	22	<1	30%	Pass	
Manganese	M17-Jl02307	CP	mg/kg	190	190	2.0	30%	Pass	
Mercury	M17-Jl02307	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02307	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02307	CP	mg/kg	34	34	<1	30%	Pass	
Selenium	M17-Jl02307	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02307	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02307	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02307	CP	mg/kg	44	45	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02314	CP	%	30	27	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02317	CP	mg/kg	7.6	8.9	15	30%	Pass	
Beryllium	M17-Jl02317	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02317	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02317	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02317	CP	mg/kg	23	24	5.0	30%	Pass	
Cobalt	M17-Jl02317	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02317	CP	mg/kg	15	12	17	30%	Pass	
Lead	M17-Jl02317	CP	mg/kg	93	81	14	30%	Pass	
Manganese	M17-Jl02317	CP	mg/kg	49	47	6.0	30%	Pass	
Mercury	M17-Jl02317	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02317	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02317	CP	mg/kg	13	14	8.0	30%	Pass	
Selenium	M17-Jl02317	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02317	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02317	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02317	CP	mg/kg	93	110	16	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02319	CP	mg/kg	3.7	3.7	<1	30%	Pass	
Beryllium	M17-Jl02319	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02319	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02319	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02319	CP	mg/kg	5.9	6.0	2.0	30%	Pass	
Cobalt	M17-Jl02319	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02319	CP	mg/kg	20	20	<1	30%	Pass	
Lead	M17-Jl02319	CP	mg/kg	48	49	2.0	30%	Pass	
Manganese	M17-Jl02319	CP	mg/kg	15	16	4.0	30%	Pass	
Mercury	M17-Jl02319	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02319	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02319	CP	mg/kg	5.7	5.8	2.0	30%	Pass	
Selenium	M17-Jl02319	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02319	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02319	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02319	CP	mg/kg	69	71	4.0	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
a-BHC	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M17-Jl01218	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M17-Jl03678	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02326	CP	%	9.9	10	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02328	CP	mg/kg	20	17	17	30%	Pass	
Beryllium	M17-Jl02328	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02328	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02328	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02328	CP	mg/kg	24	27	14	30%	Pass	
Cobalt	M17-Jl02328	CP	mg/kg	< 5	5.5	10	30%	Pass	
Copper	M17-Jl02328	CP	mg/kg	11	10	7.0	30%	Pass	
Lead	M17-Jl02328	CP	mg/kg	47	42	10	30%	Pass	
Manganese	M17-Jl02328	CP	mg/kg	91	90	2.0	30%	Pass	
Molybdenum	M17-Jl02328	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02328	CP	mg/kg	13	14	8.0	30%	Pass	
Selenium	M17-Jl02328	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02328	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02328	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02328	CP	mg/kg	66	61	9.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02330	CP	mg/kg	16	16	<1	30%	Pass	
Beryllium	M17-Jl02330	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02330	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02330	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02330	CP	mg/kg	11	11	1.0	30%	Pass	
Cobalt	M17-Jl02330	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02330	CP	mg/kg	6.3	6.4	2.0	30%	Pass	
Lead	M17-Jl02330	CP	mg/kg	34	34	<1	30%	Pass	
Manganese	M17-Jl02330	CP	mg/kg	34	34	1.0	30%	Pass	
Mercury	M17-Jl02330	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02330	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02330	CP	mg/kg	6.2	6.2	<1	30%	Pass	
Selenium	M17-Jl02330	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02330	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02330	CP	mg/kg	16	16	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02336	CP	%	7.0	6.1	15	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02339	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02339	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02339	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02339	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02339	CP	mg/kg	15	17	12	30%	Pass	
Mercury	M17-Jl02339	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02339	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02339	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02339	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02339	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02339	CP	mg/kg	26	28	6.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02340	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02340	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02340	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02340	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02340	CP	mg/kg	5.9	6.0	1.0	30%	Pass	
Mercury	M17-Jl02340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02340	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02340	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02340	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02340	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02346	CP	%	8.4	7.9	6.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M17-Jl02349	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M17-Jl02349	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M17-Jl02349	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M17-Jl02349	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M17-Jl02349	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M17-Jl02349	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	M17-Jl02349	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M17-Jl02349	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M17-Jl02349	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M17-Jl07246	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M17-Jl07246	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M17-Jl07246	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M17-Jl07246	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M17-Jl07246	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M17-Jl07246	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M17-Jl07246	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M17-Jl07246	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M17-Jl07246	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M17-Jl07246	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M17-Jl07246	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M17-Jl07246	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
4-Nitrophenol	M17-Jl07246	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M17-Jl07246	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02350	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02350	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02350	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02350	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M17-Jl02350	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02350	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02350	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02350	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02350	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02351	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02351	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02351	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02351	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02351	CP	mg/kg	5.3	5.4	3.0	30%	Pass	
Mercury	M17-Jl02351	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02351	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02351	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02351	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02351	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02356	CP	%	12	15	17	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02360	CP	mg/kg	4.1	4.4	7.0	30%	Pass	
Beryllium	M17-Jl02360	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02360	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02360	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02360	CP	mg/kg	9.7	9.7	1.0	30%	Pass	
Cobalt	M17-Jl02360	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02360	CP	mg/kg	13	12	6.0	30%	Pass	
Lead	M17-Jl02360	CP	mg/kg	40	35	14	30%	Pass	
Manganese	M17-Jl02360	CP	mg/kg	90	89	1.0	30%	Pass	
Molybdenum	M17-Jl02360	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02360	CP	mg/kg	9.2	9.3	1.0	30%	Pass	
Selenium	M17-Jl02360	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02360	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02360	CP	mg/kg	60	59	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02361	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02361	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02361	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02361	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02361	CP	mg/kg	5.6	5.4	3.0	30%	Pass	
Mercury	M17-Jl02361	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02361	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02361	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02361	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02361	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02361	CP	mg/kg	17	16	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Clay	M17-Jl02363	CP	%	6.3	8.8	33	30%	Fail	Q15
Conductivity (1:5 aqueous extract at 25°C)	M17-Jl02363	CP	uS/cm	370	320	14	30%	Pass	
pH (1:5 Aqueous extract)	M17-Jl02363	CP	pH Units	8.2	8.1	pass	30%	Pass	
pH (units)(1:5 soil:CaCl2 extract)	M17-Jl02363	CP	pH Units	7.7	7.7	pass	30%	Pass	
Total Organic Carbon	M17-Jl02363	CP	%	1.4	1.8	25	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M17-Jl02365	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M17-Jl02365	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M17-Jl02365	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M17-Jl02365	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M17-Jl02365	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M17-Jl02365	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M17-Jl02365	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M17-Jl02365	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M17-Jl02365	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	M17-Jl02365	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M17-Jl02365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M17-Jl02365	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M17-Jl02365	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M17-Jl02365	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M17-Jl02365	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02366	CP	%	7.0	6.7	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M17-Jl02371	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02372	CP	mg/kg	4.3	4.5	6.0	30%	Pass	
Beryllium	M17-Jl02372	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02372	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02372	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02372	CP	mg/kg	9.2	9.2	<1	30%	Pass	
Cobalt	M17-Jl02372	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02372	CP	mg/kg	24	24	1.0	30%	Pass	
Lead	M17-Jl02372	CP	mg/kg	44	44	1.0	30%	Pass	
Manganese	M17-Jl02372	CP	mg/kg	86	86	1.0	30%	Pass	
Mercury	M17-Jl02372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02372	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02372	CP	mg/kg	6.0	6.0	1.0	30%	Pass	
Selenium	M17-Jl02372	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02372	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02372	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02372	CP	mg/kg	84	86	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02376	CP	%	10	8.9	15	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02382	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02382	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02382	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02382	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02382	CP	mg/kg	7.2	7.7	6.0	30%	Pass	
Cobalt	M17-Jl02382	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02382	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02382	CP	mg/kg	5.6	7.8	33	30%	Fail	Q15
Manganese	M17-Jl02382	CP	mg/kg	9.7	13	26	30%	Pass	
Molybdenum	M17-Jl02382	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02382	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02382	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02382	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02382	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02382	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02383	CP	mg/kg	9.3	9.0	3.0	30%	Pass	
Beryllium	M17-Jl02383	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02383	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02383	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02383	CP	mg/kg	33	34	3.0	30%	Pass	
Cobalt	M17-Jl02383	CP	mg/kg	15	16	3.0	30%	Pass	
Copper	M17-Jl02383	CP	mg/kg	28	28	2.0	30%	Pass	
Lead	M17-Jl02383	CP	mg/kg	41	42	3.0	30%	Pass	
Mercury	M17-Jl02383	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02383	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02383	CP	mg/kg	38	39	3.0	30%	Pass	
Selenium	M17-Jl02383	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02383	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02383	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02383	CP	mg/kg	110	110	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02386	CP	%	3.0	2.7	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02394	CP	mg/kg	4.3	3.9	12	30%	Pass	
Beryllium	M17-Jl02394	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02394	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02394	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02394	CP	mg/kg	10	11	1.0	30%	Pass	
Cobalt	M17-Jl02394	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02394	CP	mg/kg	17	17	3.0	30%	Pass	
Lead	M17-Jl02394	CP	mg/kg	92	110	16	30%	Pass	
Manganese	M17-Jl02394	CP	mg/kg	54	52	4.0	30%	Pass	
Mercury	M17-Jl02394	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02394	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02394	CP	mg/kg	7.1	7.4	5.0	30%	Pass	
Selenium	M17-Jl02394	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02394	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02394	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02394	CP	mg/kg	150	160	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02395	CP	mg/kg	3.6	3.3	7.0	30%	Pass	
Beryllium	M17-Jl02395	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02395	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02395	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02395	CP	mg/kg	9.7	9.8	1.0	30%	Pass	
Cobalt	M17-Jl02395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02395	CP	mg/kg	16	17	1.0	30%	Pass	
Lead	M17-Jl02395	CP	mg/kg	84	84	<1	30%	Pass	
Manganese	M17-Jl02395	CP	mg/kg	61	62	1.0	30%	Pass	
Mercury	M17-Jl02395	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02395	CP	mg/kg	11	11	<1	30%	Pass	
Selenium	M17-Jl02395	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02395	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02395	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02395	CP	mg/kg	200	210	2.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M17-Jl02396	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M17-Jl02396	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M17-Jl02396	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M17-Jl02396	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M17-Jl02396	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M17-Jl02396	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	M17-Jl02396	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2.4-Trichlorobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Tetrachloroethene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M17-Jl02396	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M17-Jl02396	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Fluoride	M17-Jl02396	CP	mg/kg	< 100	< 100	<1	30%	Pass	
% Moisture	M17-Jl02396	CP	%	5.7	6.2	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M17-Jl02404	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02405	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02405	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02405	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02405	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M17-Jl02405	CP	mg/kg	6.9	6.9	1.0	30%	Pass	
Mercury	M17-Jl02405	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02405	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02405	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02405	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02405	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02406	CP	%	3.7	3.4	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02414	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02414	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02414	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02414	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02414	CP	mg/kg	< 5	5.4	8.0	30%	Pass	
Cobalt	M17-Jl02414	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02414	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02414	CP	mg/kg	12	11	10	30%	Pass	
Manganese	M17-Jl02414	CP	mg/kg	33	28	17	30%	Pass	
Mercury	M17-Jl02414	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02414	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02414	CP	mg/kg	5.0	< 5	45	30%	Fail	Q15
Selenium	M17-Jl02414	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02414	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Tin	M17-Jl02414	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02414	CP	mg/kg	17	15	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02415	CP	mg/kg	11	11	3.0	30%	Pass	
Beryllium	M17-Jl02415	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02415	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02415	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02415	CP	mg/kg	25	25	<1	30%	Pass	
Cobalt	M17-Jl02415	CP	mg/kg	5.8	5.9	<1	30%	Pass	
Copper	M17-Jl02415	CP	mg/kg	15	15	<1	30%	Pass	
Lead	M17-Jl02415	CP	mg/kg	16	17	2.0	30%	Pass	
Mercury	M17-Jl02415	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02415	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02415	CP	mg/kg	24	25	1.0	30%	Pass	
Selenium	M17-Jl02415	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02415	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02415	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02415	CP	mg/kg	44	45	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02416	CP	%	3.3	3.7	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl02425	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M17-Jl02425	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M17-Jl02425	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M17-Jl02425	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M17-Jl02425	CP	mg/kg	15	15	1.0	30%	Pass	
Cobalt	M17-Jl02425	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M17-Jl02425	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M17-Jl02425	CP	mg/kg	15	15	<1	30%	Pass	
Manganese	M17-Jl02425	CP	mg/kg	19	19	<1	30%	Pass	
Mercury	M17-Jl02425	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M17-Jl02425	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M17-Jl02425	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M17-Jl02425	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M17-Jl02425	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M17-Jl02425	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M17-Jl02425	CP	mg/kg	11	11	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M17-Jl02426	CP	%	2.3	2.1	12	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Mary Makarios	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Alex Petridis	Senior Analyst-Organic (VIC)
Huong Le	Senior Analyst-Inorganic (VIC)
Jonathon Angell	Senior Analyst-Inorganic (QLD)



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

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Geoaquitards Environmental
PO Box 4040
Dandenong Sth
VIC 3175

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Emmanuel Ernest**

Report **552701-W**
Project name SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID RM406-M.1
Received Date Jul 03, 2017

Client Sample ID			**RINSATE**	**TRIP**
Sample Matrix			**Water**	**Water**
Eurofins | mgt Sample No.			**M17-Jl02564**	**M17-Jl02565**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	-	< 0.02
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Molybdenum	0.005	mg/L	< 0.005	-
Nickel	0.001	mg/L	< 0.001	-
Selenium	0.001	mg/L	< 0.001	-
Silver	0.005	mg/L	< 0.005	-
Tin	0.005	mg/L	< 0.005	-
Zinc	0.005	mg/L	< 0.005	-

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
Eurofins | mgt Suite B4A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jul 05, 2017	7 Day
- Method: LTM-ORG-2010 TRH C6-C36			
Vic EPA IWRG 621 (Solids)			
IWRG 621 Metals : Metals M12	Melbourne	Jul 05, 2017	28 Day
- Method: LTM-MET-3040 Metals in Waters by ICP-MS			

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Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail	Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271		X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217	X								
Brisbane Laboratory - NATA Site # 20794						X			
Perth Laboratory - NATA Site # 18217									
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	73 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02188	X								
2	73 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02189			X	X					
3	73 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02190			X	X					
4	73 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02191				X			X		
5	73 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02192			X	X					
6	68 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02193	X		X	X					
7	68 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02194			X	X					
8	68 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02195				X			X		
9	68 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02196			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
10	62 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02197	X		X	X					
11	62 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02198			X	X					
12	62 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02199				X			X		
13	54 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02200	X		X	X					
14	54 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02201			X	X					
15	54 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02202			X	X					
16	54 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02203				X			X		
17	54 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02204			X	X					
18	DUPLICATE 1	Jul 03, 2017		Soil	M17-Jl02205			X	X					
19	74 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02206	X		X	X					
20	74 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02207			X	X					
21	74 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02208			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
22	63 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02209			X	X					
23	63 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02210			X	X					
24	63 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02211			X	X					
25	63 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02212				X			X		
26	63 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02213	X								
27	63 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02214			X	X					
28	55 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02215			X	X					
29	55 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02216	X								
30	55 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02217			X	X					
31	55 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02218			X	X					
32	47 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02219			X	X					
33	47 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02220				X			X		

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
34	47 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02221	X								
35	47 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02222			X	X					
36	46 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02223			X	X					
37	46 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02224			X	X					
38	46 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02225	X								
39	46 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02226			X	X					
40	38 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02227			X	X					
41	38 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02228			X	X					
42	38 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02229	X								
43	31 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02230			X	X					
44	31 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02231			X	X					
45	31 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02232	X								

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
46	31 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02233			X	X					
47	30 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02234			X	X					
48	30 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02235			X	X					
49	30 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02236	X								
50	30 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02237			X	X					
51	DUPLICATE 2	Jul 03, 2017		Soil	M17-Jl02238			X	X					
52	39 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02239			X	X					
53	39 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02240			X	X					
54	39 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02241			X	X					
55	39 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02242	X								
56	39 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02243			X	X					
57	32 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02244			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
58	32 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02245			X	X					
59	32 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02246	X								
60	32 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02247			X	X					
61	33 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02248			X	X					
62	33 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02249			X	X					
63	33 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02250			X	X					
64	33 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02251	X								
65	33 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02252			X	X					
66	40 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02253			X	X					
67	40 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02254				X	X				
68	40 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02255			X	X					
69	72 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02256			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
70	72 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02257			X	X					
71	61 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02258	X		X	X					
72	61 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02259			X	X					
73	61 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02260			X	X					
74	53 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02261	X		X	X					
75	53 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02262			X	X					
76	53 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02263			X	X					
77	45 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02264	X		X	X					
78	45 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02265			X	X					
79	45 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02266			X	X					
80	DUPLICATE 4	Jul 03, 2017		Soil	M17-Jl02267			X	X					
81	67 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02268			X	X					

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Received: Jul 3, 2017 4:04 PM
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Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
82	67 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02269	X		X	X					
83	67 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02270	X								
84	60 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02271			X	X					
85	60 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02272			X	X					
86	60 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02273			X	X					
87	52 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02274			X	X					
88	52 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02275			X	X					
89	52 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02276	X		X	X					
90	52 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02277			X	X					
91	52 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02278			X	X					
92	44 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02279	X								
93	44 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02280	X								

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
94	57 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02281	X		X	X					
95	57 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02282			X	X					
96	57 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02283			X	X					
97	57 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02284			X	X					
98	65 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02285	X		X	X					
99	65 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02286			X	X					
100	65 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02287			X	X					
101	65 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02288	X		X	X					
102	65 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02289			X	X					
103	76 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02290			X	X					
104	75 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02291	X		X	X					
105	75 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02292			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
106	75 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02293				X	X				
107	75 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02294			X	X					
108	75 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02295			X	X					
109	69 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02296	X								
110	69 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02297			X	X					
111	69 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02298			X	X					
112	69 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02299			X	X					
113	69 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02300			X	X					
114	69 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02301			X	X					
115	64 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02302	X								
116	64 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02303			X	X					
117	64 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02304			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
118	64 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02305			X	X					
119	56 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02306	X		X	X					
120	56 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02307			X	X					
121	56 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02308			X	X					
122	56 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02309			X	X					
123	48 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02310	X		X	X					
124	48 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02311			X	X					
125	48 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02312			X	X					
126	48 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02314			X	X					
127	DUPLICATE 5	Jul 03, 2017		Soil	M17-Jl02315			X	X					
128	DUPLICATE 6	Jul 03, 2017		Soil	M17-Jl02316			X	X					
129	DUPLICATE 7	Jul 03, 2017		Soil	M17-Jl02317			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
130	43 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02318	X								
131	43 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02319			X	X					
132	43 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02320			X	X					
133	43 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02321			X	X					
134	51 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02322	X								
135	51 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02323			X	X					
136	51 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02324				X				X	
137	51 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02325			X	X					
138	59 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02326	X		X	X					
139	59 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02327			X	X					
140	70 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02328			X	X					
141	70 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02329	X		X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
142	70 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02330			X	X					
143	70 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02331			X	X					
144	37 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02332			X	X					
145	37 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02333			X	X					
146	37 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02334			X	X					
147	29 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02335			X	X					
148	29 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02336			X	X					
149	29 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02337			X	X					
150	28 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02338			X	X					
151	28 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02339			X	X					
152	28 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02340			X	X					
153	36 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02341			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
154	36 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02342			X	X					
155	36 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02343			X	X					
156	36 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02344			X	X					
157	36 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02345			X	X					
158	DUPLICATE 8	Jul 03, 2017		Soil	M17-Jl02346			X	X					
159	35 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02347			X	X					
160	35 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02348			X	X					
161	35 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02349				X					X
162	35 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02350			X	X					
163	35 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02351			X	X					
164	35 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02352			X	X					
165	34 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02353			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
166	41 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02354			X	X					
167	41 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02355			X	X					
168	41 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02356			X	X					
169	49 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02357			X	X					
170	49 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02358			X	X					
171	49 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02359			X	X					
172	42 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02360			X	X					
173	42 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02361			X	X					
174	42 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02362			X	X					
175	50 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02363				X		X			
176	50 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02364			X	X					
177	50 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02365				X					X

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Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
178	58 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02366			X	X					
179	58 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02367			X	X					
180	58 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02368			X	X					
181	58 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02369				X				X	
182	66 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02370			X	X					
183	80 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02371			X	X					
184	80 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02372			X	X					
185	79 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02373			X	X					
186	79 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02374			X	X					
187	78 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02375			X	X					
188	78 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02376			X	X					
189	71 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02377			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
190	12 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02378			X	X					
191	13 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02379			X	X					
192	13 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02380			X	X					
193	13 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02381				X					X
194	13 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02382			X	X					
195	21 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02383			X	X					
196	21 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02384				X					X
197	22 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02385			X	X					
198	22 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02386			X	X					
199	22 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02387			X	X					
200	20 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02388			X	X					
201	20 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02389			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
202	20 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02390				X					X
203	83 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02391			X	X					
204	83 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02392			X	X					
205	83 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02393			X	X					
206	82 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02394			X	X					
207	82 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02395			X	X					
208	82 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02396				X				X	
209	82 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02397			X	X					
210	81 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02398			X	X					
211	84 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02399			X	X					
212	84 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02400			X	X					
213	85 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02401			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
214	85 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02402			X	X					
215	77 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02403			X	X					
216	27 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02404			X	X					
217	19 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02405			X	X					
218	19 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02406			X	X					
219	18 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02407			X	X					
220	18 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02408			X	X					
221	26 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02409			X	X					
222	26 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02410			X	X					
223	14 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02411			X	X					
224	14 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02412			X	X					
225	15 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02413			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
226	15 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02414			X	X					
227	17 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02415			X	X					
228	17 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02416			X	X					
229	25 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02417			X	X					
230	25 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02418			X	X					
231	23 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02419			X	X					
232	23 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02420			X	X					
233	23 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02421				X		X			X
234	16 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02422			X	X					
235	16 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02423			X	X					
236	16 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02424				X				X	
237	16 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02425			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
238	24 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02426			X	X					
239	24 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02427			X	X					
240	24 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02428			X	X					
241	RINSATE	Jul 03, 2017		Water	M17-Jl02564			X						
242	TRIP	Jul 03, 2017		Water	M17-Jl02565		X							
Test Counts						35	1	204	222	2	2	6	4	6

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. All biota results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. 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 and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
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 & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. 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 Aroclor 1260 in Matrix Spikes and LCS.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Molybdenum	mg/L	< 0.005			0.005	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Selenium	mg/L	< 0.001			0.001	Pass	
Silver	mg/L	< 0.005			0.005	Pass	
Tin	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	97			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	96			75-125	Pass	
Molybdenum	%	98			80-120	Pass	
Nickel	%	95			80-120	Pass	
Selenium	%	98			80-120	Pass	
Silver	%	91			80-120	Pass	
Tin	%	94			80-120	Pass	
Zinc	%	96			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	A17-Jn32051	NCP	%	94			75-125	Pass	
Cadmium	A17-Jn32051	NCP	%	94			75-125	Pass	
Chromium	A17-Jn32051	NCP	%	92			75-125	Pass	
Copper	A17-Jn32051	NCP	%	91			75-125	Pass	
Lead	A17-Jn32051	NCP	%	92			75-125	Pass	
Mercury	A17-Jn32051	NCP	%	96			70-130	Pass	
Molybdenum	A17-Jn32051	NCP	%	95			75-125	Pass	
Nickel	A17-Jn32051	NCP	%	91			75-125	Pass	
Selenium	A17-Jn32051	NCP	%	86			75-125	Pass	
Silver	A17-Jn32051	NCP	%	99			75-125	Pass	
Tin	A17-Jn32051	NCP	%	94			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M17-Jl01769	NCP	%	121			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	A17-Jn32051	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	A17-Jn32051	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	A17-Jn32051	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	A17-Jn32051	NCP	mg/L	0.003	0.003	<1	30%	Pass	
Lead	A17-Jn32051	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	A17-Jn32051	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Molybdenum	A17-Jn32051	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nickel	A17-Jn32051	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Selenium	A17-Jn32051	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Silver	A17-Jn32051	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tin	A17-Jn32051	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M17-Jl02083	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Comments

Sample Integrity

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

Authorised By

Mary Makarios	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)



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

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Geoaquitards Environmental
PO Box 4040
Dandenong Sth
VIC 3175

Attention:	Emmanuel Ernest
Report	552701-AID
Project Name	SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID	RM406-M.1
Received Date	Jul 03, 2017
Date Reported	Jul 10, 2017

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS4964 method is around 0.1 g/kg (0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis where required, this is considered to be at the nominal reporting limit of 0.01 % (w / w).The examination of large sample sizes(500 mL is recommended) may improve the likelihood of identifying ACM in the > 2mm fraction.The NEPM screening level of 0.001 % (w / w) asbestos in soil for FA(friable asbestos) and AF(asbestos fines) then applies where they are able to be quantified by gravimetric procedures.This quantitative screening is not generally applicable to FF(free fibres) and results of Trace Analysis are referred. *NOTE: NATA News March 2014, p.7, states in relation to AS4964: "This is a qualitative method with a nominal reporting limit of 0.01%" and that currently in Australia "there is no validated method available for the quantification of asbestos". Accordingly, NATA Accreditation does not cover the performance of this service (indicated with an asterisk).* *This report is consistent with the analytical procedures and reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended) and the Western Australia Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia, 2009, including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil, June 2011.*

Project Name SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID RM406-M.1
Date Sampled Jul 03, 2017
Report 552701-AID

Client Sample ID	Eurofins | mgt Sample No.	Date Sampled	Sample Description	Result
73 @ 0.15M	17-JI02188	Jul 03, 2017	Approximate Sample 98g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
68 @ 0.15M	17-JI02193	Jul 03, 2017	Approximate Sample 72g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
62 @ 0.15M	17-JI02197	Jul 03, 2017	Approximate Sample 85g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
54 @ 0.15M	17-JI02200	Jul 03, 2017	Approximate Sample 52g Sample consisted of: Brown fine grain soil	No asbestos detected. Organic fibre detected. No respirable fibres detected.
74 @ 0.15M	17-JI02206	Jul 03, 2017	Approximate Sample 69g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
63 @ 2.00M	17-JI02213	Jul 03, 2017	Approximate Sample 67g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
55 @ 2.00M	17-JI02216	Jul 03, 2017	Approximate Sample 77g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
47 @ 2.00M	17-JI02221	Jul 03, 2017	Approximate Sample 79g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
46 @ 2.00M	17-JI02225	Jul 03, 2017	Approximate Sample 85g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
38 @ 1.50M	17-JI02229	Jul 03, 2017	Approximate Sample 76g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Client Sample ID	Eurofins | mgt Sample No.	Date Sampled	Sample Description	Result
31 @ 2.00M	17-JI02232	Jul 03, 2017	Approximate Sample 100g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
30 @ 2.00M	17-JI02236	Jul 03, 2017	Approximate Sample 85g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
39 @ 2.00M	17-JI02242	Jul 03, 2017	Approximate Sample 53g Sample consisted of: Brown fine grain soil and rocks	Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of asbestos containing material = 0.95g Organic fibre detected.
32 @ 2.00M	17-JI02246	Jul 03, 2017	Approximate Sample 75g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
33 @ 2.00M	17-JI02251	Jul 03, 2017	Approximate Sample 34g Sample consisted of: Brown fine grain soil, organic debris and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
61 @ 0.15M	17-JI02258	Jul 03, 2017	Approximate Sample 56g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
53 @ 0.15M	17-JI02261	Jul 03, 2017	Approximate Sample 73g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
45 @ 0.15M	17-JI02264	Jul 03, 2017	Approximate Sample 81g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
67 @ 0.50M	17-JI02269	Jul 03, 2017	Approximate Sample 66g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
67 @ 2.00M	17-JI02270	Jul 03, 2017	Approximate Sample 84g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
52 @ 1.00M	17-JI02276	Jul 03, 2017	Approximate Sample 83g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
44 @ 0.15M	17-JI02279	Jul 03, 2017	Approximate Sample 80g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
44 @ 2.00M	17-JI02280	Jul 03, 2017	Approximate Sample 127g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Client Sample ID	Eurofins | mgt Sample No.	Date Sampled	Sample Description	Result
57 @ 0.15M	17-JI02281	Jul 03, 2017	Approximate Sample 82g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
65 @ 0.15M	17-JI02285	Jul 03, 2017	Approximate Sample 80g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
65 @ 2.50M	17-JI02288	Jul 03, 2017	Approximate Sample 139g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
75 @ 0.15M	17-JI02291	Jul 03, 2017	Approximate Sample 100g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
69 @ 0.15M	17-JI02296	Jul 03, 2017	Approximate Sample 141g Sample consisted of: Brown fine grain soil	No asbestos detected. Organic fibre detected. No respirable fibres detected.
64 @ 0.15M	17-JI02302	Jul 03, 2017	Approximate Sample 93g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
56 @ 0.15M	17-JI02306	Jul 03, 2017	Approximate Sample 56g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
48 @ 0.15M	17-JI02310	Jul 03, 2017	Approximate Sample 75g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
43 @ 0.15M	17-JI02318	Jul 03, 2017	Approximate Sample 86g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
51 @ 0.15M	17-JI02322	Jul 03, 2017	Approximate Sample 65g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
59 @ 0.15M	17-JI02326	Jul 03, 2017	Approximate Sample 51g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
70 @ 0.50M	17-JI02329	Jul 03, 2017	Approximate Sample 52g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.

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
Asbestos - LTM-ASB-8020	Sydney	Jul 04, 2017	Indefinite

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Company Name: Geoaquitards Environmental
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VIC 3175

Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail	Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271		X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217	X								
Brisbane Laboratory - NATA Site # 20794						X			
Perth Laboratory - NATA Site # 18217									
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	73 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02188	X							
2	73 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02189			X	X				
3	73 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02190			X	X				
4	73 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02191				X			X	
5	73 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02192			X	X				
6	68 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02193	X		X	X				
7	68 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02194			X	X				
8	68 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02195				X			X	
9	68 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02196			X	X				

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
10	62 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02197	X		X	X					
11	62 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02198			X	X					
12	62 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02199				X			X		
13	54 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02200	X		X	X					
14	54 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02201			X	X					
15	54 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02202			X	X					
16	54 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02203				X			X		
17	54 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02204			X	X					
18	DUPLICATE 1	Jul 03, 2017		Soil	M17-Jl02205			X	X					
19	74 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02206	X		X	X					
20	74 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02207			X	X					
21	74 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02208			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
22	63 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02209			X	X					
23	63 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02210			X	X					
24	63 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02211			X	X					
25	63 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02212				X			X		
26	63 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02213	X								
27	63 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02214			X	X					
28	55 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02215			X	X					
29	55 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02216	X								
30	55 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02217			X	X					
31	55 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02218			X	X					
32	47 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02219			X	X					
33	47 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02220				X			X		

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Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
34	47 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02221	X								
35	47 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02222			X	X					
36	46 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02223			X	X					
37	46 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02224			X	X					
38	46 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02225	X								
39	46 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02226			X	X					
40	38 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02227			X	X					
41	38 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02228			X	X					
42	38 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02229	X								
43	31 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02230			X	X					
44	31 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02231			X	X					
45	31 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02232	X								

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
46	31 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02233			X	X					
47	30 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02234			X	X					
48	30 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02235			X	X					
49	30 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02236	X								
50	30 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02237			X	X					
51	DUPLICATE 2	Jul 03, 2017		Soil	M17-Jl02238			X	X					
52	39 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02239			X	X					
53	39 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02240			X	X					
54	39 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02241			X	X					
55	39 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02242	X								
56	39 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02243			X	X					
57	32 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02244			X	X					

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Received: Jul 3, 2017 4:04 PM
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Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
58	32 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02245			X	X					
59	32 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02246	X								
60	32 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02247			X	X					
61	33 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02248			X	X					
62	33 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02249			X	X					
63	33 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02250			X	X					
64	33 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02251	X								
65	33 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02252			X	X					
66	40 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02253			X	X					
67	40 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02254				X	X				
68	40 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02255			X	X					
69	72 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02256			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
70	72 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02257			X	X					
71	61 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02258	X		X	X					
72	61 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02259			X	X					
73	61 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02260			X	X					
74	53 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02261	X		X	X					
75	53 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02262			X	X					
76	53 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02263			X	X					
77	45 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02264	X		X	X					
78	45 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02265			X	X					
79	45 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02266			X	X					
80	DUPLICATE 4	Jul 03, 2017		Soil	M17-Jl02267			X	X					
81	67 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02268			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
82	67 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02269	X		X	X					
83	67 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02270	X								
84	60 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02271			X	X					
85	60 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02272			X	X					
86	60 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02273			X	X					
87	52 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02274			X	X					
88	52 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02275			X	X					
89	52 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02276	X		X	X					
90	52 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02277			X	X					
91	52 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02278			X	X					
92	44 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02279	X								
93	44 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02280	X								

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
94	57 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02281	X		X	X					
95	57 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02282			X	X					
96	57 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02283			X	X					
97	57 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02284			X	X					
98	65 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02285	X		X	X					
99	65 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02286			X	X					
100	65 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02287			X	X					
101	65 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02288	X		X	X					
102	65 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02289			X	X					
103	76 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02290			X	X					
104	75 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02291	X		X	X					
105	75 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02292			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
106	75 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02293				X	X				
107	75 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02294			X	X					
108	75 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02295			X	X					
109	69 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02296	X								
110	69 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02297			X	X					
111	69 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02298			X	X					
112	69 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02299			X	X					
113	69 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02300			X	X					
114	69 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02301			X	X					
115	64 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02302	X								
116	64 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02303			X	X					
117	64 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02304			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
118	64 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02305			X	X					
119	56 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02306	X		X	X					
120	56 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02307			X	X					
121	56 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02308			X	X					
122	56 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02309			X	X					
123	48 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02310	X		X	X					
124	48 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02311			X	X					
125	48 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02312			X	X					
126	48 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02314			X	X					
127	DUPLICATE 5	Jul 03, 2017		Soil	M17-Jl02315			X	X					
128	DUPLICATE 6	Jul 03, 2017		Soil	M17-Jl02316			X	X					
129	DUPLICATE 7	Jul 03, 2017		Soil	M17-Jl02317			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
130	43 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02318	X								
131	43 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02319			X	X					
132	43 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02320			X	X					
133	43 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02321			X	X					
134	51 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02322	X								
135	51 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02323			X	X					
136	51 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02324				X				X	
137	51 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02325			X	X					
138	59 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02326	X		X	X					
139	59 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02327			X	X					
140	70 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02328			X	X					
141	70 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02329	X		X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
142	70 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02330			X	X					
143	70 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02331			X	X					
144	37 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02332			X	X					
145	37 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02333			X	X					
146	37 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02334			X	X					
147	29 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02335			X	X					
148	29 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02336			X	X					
149	29 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02337			X	X					
150	28 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02338			X	X					
151	28 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02339			X	X					
152	28 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02340			X	X					
153	36 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02341			X	X					

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Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
154	36 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02342			X	X					
155	36 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02343			X	X					
156	36 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02344			X	X					
157	36 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02345			X	X					
158	DUPLICATE 8	Jul 03, 2017		Soil	M17-Jl02346			X	X					
159	35 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02347			X	X					
160	35 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02348			X	X					
161	35 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02349				X					X
162	35 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02350			X	X					
163	35 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02351			X	X					
164	35 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02352			X	X					
165	34 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02353			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
166	41 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02354			X	X					
167	41 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02355			X	X					
168	41 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02356			X	X					
169	49 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02357			X	X					
170	49 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02358			X	X					
171	49 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02359			X	X					
172	42 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02360			X	X					
173	42 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02361			X	X					
174	42 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02362			X	X					
175	50 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02363				X		X			
176	50 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02364			X	X					
177	50 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02365				X					X

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
178	58 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02366			X	X					
179	58 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02367			X	X					
180	58 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02368			X	X					
181	58 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02369				X				X	
182	66 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02370			X	X					
183	80 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02371			X	X					
184	80 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02372			X	X					
185	79 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02373			X	X					
186	79 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02374			X	X					
187	78 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02375			X	X					
188	78 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02376			X	X					
189	71 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02377			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
190	12 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02378			X	X					
191	13 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02379			X	X					
192	13 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02380			X	X					
193	13 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02381				X					X
194	13 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02382			X	X					
195	21 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02383			X	X					
196	21 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02384				X					X
197	22 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02385			X	X					
198	22 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02386			X	X					
199	22 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02387			X	X					
200	20 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02388			X	X					
201	20 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02389			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
202	20 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02390				X					X
203	83 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02391			X	X					
204	83 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02392			X	X					
205	83 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02393			X	X					
206	82 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02394			X	X					
207	82 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02395			X	X					
208	82 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02396				X				X	
209	82 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02397			X	X					
210	81 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02398			X	X					
211	84 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02399			X	X					
212	84 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02400			X	X					
213	85 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02401			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
214	85 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02402			X	X					
215	77 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02403			X	X					
216	27 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02404			X	X					
217	19 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02405			X	X					
218	19 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02406			X	X					
219	18 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02407			X	X					
220	18 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02408			X	X					
221	26 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02409			X	X					
222	26 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02410			X	X					
223	14 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02411			X	X					
224	14 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02412			X	X					
225	15 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02413			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
226	15 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02414			X	X					
227	17 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02415			X	X					
228	17 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02416			X	X					
229	25 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02417			X	X					
230	25 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02418			X	X					
231	23 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02419			X	X					
232	23 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02420			X	X					
233	23 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02421				X		X			X
234	16 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02422			X	X					
235	16 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02423			X	X					
236	16 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02424				X				X	
237	16 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02425			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
238	24 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02426			X	X					
239	24 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02427			X	X					
240	24 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02428			X	X					
241	RINSATE	Jul 03, 2017		Water	M17-Jl02564			X						
242	TRIP	Jul 03, 2017		Water	M17-Jl02565		X							
Test Counts						35	1	204	222	2	2	6	4	6

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. 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.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Western Australia Department of Health
NOHSC	National Occupational Health and Safety Commission
ACM	Bonded asbestos-containing material means any material containing more than 1% asbestos and comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation, sprayed-on fireproofing, troweled-on acoustical plaster, floor tile and mastic, floor linoleum, transite shingles, roofing materials, wall and ceiling plaster, ceiling tiles, and gasket materials. This term is restricted to material that cannot pass a 7 mm x 7 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release.
FA	FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
PACM	Presumed Asbestos-Containing Material means thermal system insulation and surfacing material found in buildings, vessels, and vessel sections constructed no later than 1980 that are assumed to contain greater than one percent asbestos but have not been sampled or analyzed to verify or negate the presence of asbestos.
AF	Asbestos fines (AF) are defined as free fibres, or fibre bundles, smaller than 7mm. It is the free fibres which present the greatest risk to human health, although very small fibres (< 5 microns in length) are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve. (Note that for bonded ACM fragments to pass through a 7 mm x 7 mm sieve implies a substatntial degree of damage which increases the potential for fibre release.)
AC	Asbestos cement means a mixture of cement and asbestos fibres (typically 90:10 ratios).

Comments

The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

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
N/A	Not applicable

Authorised by:

Nibha Vaidya Senior Analyst-Asbestos (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

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1708657**	Page	: 1 of 4
Client	: **GEOAQUITARDS ENVIRONMENTAL**	Laboratory	: Environmental Division Melbourne
Contact	: EMMANUEL ERNEST	Contact	:
Address	: PO BOX 4040 DANDENONG SOUTH MELBOURNE 3164	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 9554 3258	Telephone	: +61-3-8549 9600
Project	: RM406-M.1	Date Samples Received	: 03-Jul-2017 16:30
Order number	: ----	Date Analysis Commenced	: 04-Jul-2017
C-O-C number	: ----	Issue Date	: 05-Jul-2017 16:37
Sampler	: ----		
Site	: Sandringham Golf Driving Range - 20 Wandgara Road, Sandringham		
Quote number	: MEQB-184-15		
No. of samples received	: 8		
No. of samples analysed	: 8		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SPLIT 1	SPLIT 2	SPLIT 3	SPLIT 4	SPLIT 5
				Client sampling date / time	03-Jul-2017 00:00	03-Jul-2017 00:00	03-Jul-2017 00:00	03-Jul-2017 00:00	03-Jul-2017 00:00
Compound	CAS Number	LOR	Unit		EM1708657-001	EM1708657-002	EM1708657-003	EM1708657-004	EM1708657-005
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1	%		16.6	9.1	29.1	8.4	10.8
EG005T: Total Metals by ICP-AES									
Molybdenum	7439-98-7	2	mg/kg		4	<2	2	<2	<2
Selenium	7782-49-2	5	mg/kg		<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg		<2	<2	111	<2	<2
Tin	7440-31-5	5	mg/kg		40	<5	<5	<5	<5
Arsenic	7440-38-2	5	mg/kg		6	<5	5	<5	<5
Cadmium	7440-43-9	1	mg/kg		<1	<1	3	<1	<1
Chromium	7440-47-3	2	mg/kg		10	5	17	14	6
Copper	7440-50-8	5	mg/kg		58	7	53	8	8
Lead	7439-92-1	5	mg/kg		58	11	90	18	24
Nickel	7440-02-0	2	mg/kg		8	2	17	13	5
Zinc	7440-66-6	5	mg/kg		105	28	391	35	27
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		0.6	5.0	0.2	<0.1	<0.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SPLIT 6	SPLIT 7	SPLIT 8	----	----
			Client sampling date / time	03-Jul-2017 00:00	03-Jul-2017 00:00	03-Jul-2017 00:00	----	----
Compound	CAS Number	LOR	Unit	EM1708657-006	EM1708657-007	EM1708657-008	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1	%	**9.0**	**11.0**	**7.3**	**----**	**----**
EG005T: Total Metals by ICP-AES								
Molybdenum	7439-98-7	2	mg/kg	<2	<2	<2	**----**	**----**
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	**----**	**----**
Silver	7440-22-4	2	mg/kg	**4**	<2	<2	**----**	**----**
Tin	7440-31-5	5	mg/kg	**213**	<5	<5	**----**	**----**
Arsenic	7440-38-2	5	mg/kg	**8**	<5	<5	**----**	**----**
Cadmium	7440-43-9	1	mg/kg	**1**	<1	<1	**----**	**----**
Chromium	7440-47-3	2	mg/kg	**21**	**15**	**9**	**----**	**----**
Copper	7440-50-8	5	mg/kg	**59**	**10**	**20**	**----**	**----**
Lead	7439-92-1	5	mg/kg	**65**	**57**	**41**	**----**	**----**
Nickel	7440-02-0	2	mg/kg	**16**	**8**	**5**	**----**	**----**
Zinc	7440-66-6	5	mg/kg	**127**	**52**	**56**	**----**	**----**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	**0.5**	<0.1	**0.1**	**----**	**----**

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM1708657**	Page	: 1 of 5
Client	: **GEOAQUITARDS ENVIRONMENTAL**	Laboratory	: Environmental Division Melbourne
Contact	: EMMANUEL ERNEST	Contact	:
Address	: PO BOX 4040 DANDENONG SOUTH MELBOURNE 3164	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 9554 3258	Telephone	: +61-3-8549 9600
Project	: RM406-M.1	Date Samples Received	: 03-Jul-2017
Order number	: ----	Date Analysis Commenced	: 04-Jul-2017
C-O-C number	: ----	Issue Date	: 05-Jul-2017
Sampler	: ----		
Site	: Sandringham Golf Driving Range - 20 Wandgara Road, Sandringham		
Quote number	: MEQB-184-15		
No. of samples received	: 8		
No. of samples analysed	: 8		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 978246)									
EM1708631-046	Anonymous	EA055: Moisture Content	----	1	%	21.5	21.9	1.84	0% - 20%
EM1708657-002	SPLIT 2	EA055: Moisture Content	----	1	%	9.1	8.9	2.43	No Limit
EG005T: Total Metals by ICP-AES (QC Lot: 978204)									
EM1708600-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	26	0.00	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	47	44	8.01	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	5	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	32	42	25.9	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	56	49	12.8	0% - 50%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	6	24.6	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	182	193	6.18	0% - 20%
EM1708600-011	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	14	12	13.8	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	10	8	16.1	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	11	10	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	111	110	0.00	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	326	323	1.00	0% - 20%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	12	12	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	230	230	0.00	0% - 20%

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EG005T: Total Metals by ICP-AES (QC Lot: 978206)									
EM1708657-003	SPLIT 3	EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	391	436	10.9	0% - 20%
EM1708657-003	SPLIT 3	EG005T: Cadmium	7440-43-9	1	mg/kg	3	4	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	20	16.9	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	2	7	109	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	17	15	13.8	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	111	109	1.79	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	5	<5	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	53	37	37.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	90	73	21.0	0% - 50%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 978205)									
EM1708600-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EM1708600-011	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.2	0.2	0.00	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 978207)									
EM1708657-003	SPLIT 3	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.2	0.2	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 978204)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	96.8	79	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	94.2	85	109
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	94.9	89	113
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	93.8	84	116
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	90.6	85	107
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	7.9 mg/kg	95.4	86	112
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	94.9	89	111
EG005T: Selenium	7782-49-2	5	mg/kg	<5	5.37 mg/kg	101	93	109
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.1 mg/kg	84.1	80	108
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.2 mg/kg	94.8	92	114
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	93.2	89	111
EG005T: Total Metals by ICP-AES (QCLot: 978206)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	95.5	79	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	93.6	85	109
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	94.1	89	113
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	92.5	84	116
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	90.0	85	107
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	7.9 mg/kg	92.6	86	112
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	94.9	89	111
EG005T: Selenium	7782-49-2	5	mg/kg	<5	5.37 mg/kg	101	93	109
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.1 mg/kg	83.6	80	108
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.2 mg/kg	92.8	92	114
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	92.5	89	111
EG035T: Total Recoverable Mercury by FIMS (QCLot: 978205)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	87.0	85	103
EG035T: Total Recoverable Mercury by FIMS (QCLot: 978207)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	88.2	85	103

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Matrix Spike (MS) Report		
Spike	SpikeRecovery(%)	Recovery Limits (%)

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 978204)							
EM1708600-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	105	78	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	104	84	116
		EG005T: Chromium	7440-47-3	50 mg/kg	108	79	121
		EG005T: Copper	7440-50-8	50 mg/kg	122	82	124
		EG005T: Lead	7439-92-1	50 mg/kg	103	76	124
		EG005T: Molybdenum	7439-98-7	50 mg/kg	101	79	117
		EG005T: Nickel	7440-02-0	50 mg/kg	102	78	120
		EG005T: Selenium	7782-49-2	50 mg/kg	88.9	71	125
		EG005T: Zinc	7440-66-6	50 mg/kg	127	74	128
EG005T: Total Metals by ICP-AES (QCLot: 978206)							
EM1708657-004	SPLIT 4	EG005T: Arsenic	7440-38-2	50 mg/kg	93.4	78	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.8	84	116
		EG005T: Chromium	7440-47-3	50 mg/kg	98.8	79	121
		EG005T: Copper	7440-50-8	50 mg/kg	93.5	82	124
		EG005T: Lead	7439-92-1	50 mg/kg	95.3	76	124
		EG005T: Molybdenum	7439-98-7	50 mg/kg	95.5	79	117
		EG005T: Nickel	7440-02-0	50 mg/kg	100	78	120
		EG005T: Selenium	7782-49-2	50 mg/kg	96.8	71	125
		EG005T: Zinc	7440-66-6	50 mg/kg	94.5	74	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 978205)							
EM1708600-002	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	86.7	76	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 978207)							
EM1708657-004	SPLIT 4	EG035T: Mercury	7439-97-6	5 mg/kg	89.9	76	116

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM1708657**	Page	: 1 of 4
Client	: **GEOAQUITARDS ENVIRONMENTAL**	Laboratory	: Environmental Division Melbourne
Contact	: EMMANUEL ERNEST	Telephone	: +61-3-8549 9600
Project	: RM406-M.1	Date Samples Received	: 03-Jul-2017
Site	: Sandringham Golf Driving Range - 20 Wandgara Road, Sandringham	Issue Date	: 05-Jul-2017
Sampler	: ----	No. of samples received	: 8
Order number	: ----	No. of samples analysed	: 8

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
SPLIT 1, SPLIT 2, SPLIT 3, SPLIT 4, SPLIT 5, SPLIT 6, SPLIT 7, SPLIT 8	**03-Jul-2017**	**----**	----	----	**04-Jul-2017**	17-Jul-2017	✓
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
SPLIT 1, SPLIT 2, SPLIT 3, SPLIT 4, SPLIT 5, SPLIT 6, SPLIT 7, SPLIT 8	**03-Jul-2017**	**04-Jul-2017**	30-Dec-2017	✓	**04-Jul-2017**	30-Dec-2017	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
SPLIT 1, SPLIT 2, SPLIT 3, SPLIT 4, SPLIT 5, SPLIT 6, SPLIT 7, SPLIT 8	**03-Jul-2017**	**04-Jul-2017**	31-Jul-2017	✓	**05-Jul-2017**	31-Jul-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	3	26	**11.54**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	26	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Total Mercury by FIMS	EG035T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Total Mercury by FIMS	EG035T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Total Mercury by FIMS	EG035T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)

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Certificate of Analysis

Geoaquitards Environmental
PO Box 4040
Dandenong Sth
VIC 3175

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Emmanuel Ernest**

Report **553942-L**
Project name SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID RM406-M.1
Received Date Jul 12, 2017

Client Sample ID			**48@3.0M**	**68@0.5M**
Sample Matrix			**AUS Leachate**	**AUS Leachate**
Eurofins | mgt Sample No.			**M17-Jl13566**	**M17-Jl13567**
Date Sampled			**Jul 03, 2017**	**Jul 03, 2017**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene	0.001	mg/L	-	< 0.001
Heavy Metals				
Arsenic	0.01	mg/L	0.02	-
Cadmium	0.005	mg/L	< 0.005	-
Copper	0.01	mg/L	0.03	-
Lead	0.01	mg/L	0.17	-
Nickel	0.01	mg/L	0.09	-
Tin	0.5	mg/L	< 0.5	-
Zinc	0.01	mg/L	2.1	-
AUS Leaching Procedure				
Leachate Fluid[C01]		comment	1.0	1.0
pH (initial)	0.1	pH Units	8.7	8.2
pH (Leachate fluid)	0.1	pH Units	5.0	5.0
pH (off)	0.1	pH Units	5.3	5.2

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	Melbourne	Jul 13, 2017	7 Day
- Method: LTM-ORG-2140 PAH and Phenols in Soils by GCMS			
Heavy Metals	Melbourne	Jul 12, 2017	180 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
AUS Leaching Procedure	Melbourne	Jul 12, 2017	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Site # 1254 & 14271

Sydney
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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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 18217

Company Name: Geoaquitards Environmental
Address: PO Box 4040
Dandenong Sth
VIC 3175

Order No.:
Report #: 553942
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 12, 2017 5:17 PM
Due: Jul 17, 2017
Priority: 3 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Arsenic	Benzo(a)pyrene	Cadmium	Copper	Lead	Nickel	Tin	Zinc	AUS Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217														
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 18217														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	48@3.0M	Jul 03, 2017		AUS Leachate	M17-Jl13566	X		X	X	X	X	X	X	X
2	68@0.5M	Jul 03, 2017		AUS Leachate	M17-Jl13567		X							X
Test Counts						1	1	1	1	1	1	1	1	2

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. All biota results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. 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 and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
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 & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. 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 Aroclor 1260 in Matrix Spikes and LCS.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Tin	mg/L	< 0.5			0.5	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Jl12106	NCP	%	101			75-125	Pass	
Cadmium	M17-Jl12106	NCP	%	97			75-125	Pass	
Copper	M17-Jl12106	NCP	%	91			75-125	Pass	
Lead	M17-Jl12106	NCP	%	92			75-125	Pass	
Nickel	M17-Jl12106	NCP	%	91			75-125	Pass	
Tin	M17-Jl12106	NCP	%	102			75-125	Pass	
Zinc	M17-Jl12106	NCP	%	99			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Jl12106	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	M17-Jl12106	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper	M17-Jl12106	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Lead	M17-Jl12106	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nickel	M17-Jl12106	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Tin	M17-Jl12106	NCP	mg/L	< 0.5	< 0.5	<1	30%	Pass	
Zinc	M17-Jl12106	NCP	mg/L	< 0.01	< 0.01	<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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Mary Makarios	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Alex Petridis	Senior Analyst-Organic (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)



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

Measurement uncertainty of test data is available on request or please click here.

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APPENDIX G
CHAIN-OF-CUSTODY FORMS

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164
CONTACT NAME: EMMANUEL ERNEST
PHONE NO:03 9554 3258
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948
TURNAROUND TIME: Normal

Job No: RM406-M.1
Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
Date 3/07/2017
EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES

Secondary Lab Address

No Total Number of samples

No	SAMPLE ID	MATRIX	DATE	Lab ID	CONTAINER INFORMATION (PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)
1	73@0.15m	Soil	3/7/17		0.2					✓		
2	73 @ 0.50m	Soil	3/7/17		0.2							✓
3	73 @ 1.00m	Soil	3/7/17		0.3							✓
4	73 @ 1.50m	Soil	3/7/17		0.1						✓	
5	73 @ 2.00m	Soil	3/7/17		0.4							
6	73 @ 2.50m	Soil	3/7/17		0.1							
7	73 @ 3.00m	Soil	3/7/17		0.2							
8	68 @ 0.15m	Soil	3/7/17		0.1					✓		✓
9	68 @ 0.50m	Soil	3/7/17		0.1							✓
10	68 @ 1.00m	Soil	3/7/17		0.1							✓
11	68 @ 1.50m	Soil	3/7/17		0.1						✓	
12	68 @ 2.00m	Soil	3/7/17		0.1							✓

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017
Signature: Time: 1:45 pm

RECEIVED BY

Name: Jonathan Mete Date: 3/7
Signature: JMete Time 4:04

METHOD OF SHIPMENT
Courier:
Hand Delivered:
Transport Co:
Postal

Y= Yes Analysis Required

Report: 552701 / 552720

COC Page 1 of 43

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
T (+61) (3) 9554 3258
F (+61) (3) 9705 7948
M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**

Date 3/07/2017

EMAIL REPORT TO:geo@primus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES

Secondary Lab Address

No Total Number of samples

No	SAMPLE ID	MATRIX	DATE	Lab ID	CONTAINER INFORMATION (PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)
13	62@0.15m	Soil	3/7/17		0.2					✓		✓
14	62@0.50m	Soil	3/7/17		0.0							✓
15	62@1.00m	Soil	3/7/17		0.1							
16	62@1.50m	Soil	3/7/17		0.0						✓	
17	54@0.15m	Soil	3/7/17		0.0					✓		✓
18	54@0.50m	Soil	3/7/17		0.0							✓
19	54@1.00m	Soil	3/7/17		0.1							✓
20	54@1.50m	Soil	3/7/17		0.6							
21	54@2.00m	Soil	3/7/17		0.3							
22	54@2.50m	Soil	3/7/17		0.2						✓	
23	54@3.00m	Soil	3/7/17		0.4							✓
24	DUPLICATE1	Soil	3/7/17									✓

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1.45 pm

RECEIVED BY

Name: Tony Wong Date: 3/7/17

Signature: Time 4:04

METHOD OF SHIPMENT

Courier:

Hand Delivered:

Transport Co:

Postal

Y= Yes Analysis Required

Report: 552701/552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
T (+61) (3) 9554 3258
F (+61) (3) 9705 7948
M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wangara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
25	74@0.15m	Soil	3/7/17		0.0					✓		✓						
26	74@0.50m	Soil	3/7/17		0.0							✓						
27	74@1.00m	Soil	3/7/17		0.0													
28	74@1.50m	Soil	3/7/17		0.1													
29	74@2.00m	Soil	3/7/17		0.2													
30	74@2.50m	Soil	3/7/17		0.4							✓						
31	74@3.00m	Soil	3/7/17		0.1							✓						
32	63@0.15m	Soil	3/7/17		0.1							✓						
33	63@0.50m	Soil	3/7/17		0.4							✓						
34	63@1.00m	Soil	3/7/17		0.9							✓						
35	63@1.50m	Soil	3/7/17		0.9						✓							
36	63@2.00m	Soil	3/7/17		0.5					✓								

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45pm	Signature:	Time 4:04pm	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

COC Page 3 of 5

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
T (+61) (3) 9554 3258
F (+61) (3) 9705 7948
M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~29 Wandgera Road, Sandringham~~ 20 Wangara Road, Sandringham

Date 3/07/2017

EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
37	63@2.50m	Soil	3/7/17		0.8													
38	63@3.00m	Soil	3/7/17		0.4							✓						
39	55@0.15m	Soil	3/7/17		1.6													
40	55@0.50m	Soil	3/7/17		0.5							✓						
41	55@1.00m	Soil	3/7/17		0.4													
42	55@1.50m	Soil	3/7/17		0.6													
43	55@2.00m	Soil	3/7/17		0.8					✓								
44	55@2.50m	Soil	3/7/17		1.0							✓						
45	55@3.00m	Soil	3/7/17		3.6							✓						
46	47@0.15m	Soil	3/7/17		0.7							✓						
47	47@0.50m	Soil	3/7/17		0.5													
48	47@1.00m	Soil	3/7/17		0.4													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wang	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
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Y= Yes Analysis Required

Report: 552701/552720

COC Page 4 of 4.3

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164
CONTACT NAME: EMMANUEL ERNEST
PHONE NO:03 9554 3258
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948
TURNAROUND TIME: Normal

Job No: RM406-M.1
Project: Sandringham Golf Driving Range ~~28 Wangara Road, Sandringham~~ **20 Wangara Road, Sandringham**
Date 3/07/2017
EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
49	47E1.50m	Soil	3/7/17		1.5						✓							
50	47E2.00m	Soil	3/7/17		2.3					✓								
51	47E2.50m	Soil	3/7/17		2.7													
52	47E3.00m	Soil	3/7/17		1.0													
53	46E0.15m	Soil	3/7/17		0.0							✓						
54	46E0.50m	Soil	3/7/17		0.0							✓						
55	46E1.00m	Soil	3/7/17		0.1							✓						
56	46E1.50m	Soil	3/7/17		0.0													
57	46E2.00m	Soil	3/7/17		0.4					✓								
58	46E2.50m	Soil	3/7/17		0.1													
59	46E3.00m	Soil	3/7/17		0.0							✓						
60	38E0.15m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST
Date: 3/07/2017
Signature:
Time: 1.45

RECEIVED BY

Name: Tony Wong
Date: 3/7/17
Signature:
Time 4:04 pm

METHOD OF SHIPMENT

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Y= Yes Analysis Required

Report: 552701/552720

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Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL		Job No:	RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164		Project:	Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST		Date	3/07/2017
PHONE NO:03 9554 3258		EMAIL REPORT TO:geo@iprimus.com.au	Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678	FAX NO:03 9705 7946		
TURNAROUND TIME:	Normal	ANALYSIS REQUIRED including SUITES	

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)
61	38 @ 0.50m	Soil	3/7/17		0.1							✓
62	38 @ 1.00m	Soil	3/7/17		0.0							
63	38 @ 1.50m	Soil	3/7/17		0.0					✓		
64	31 @ 0.15m	Soil	3/7/17		0.0							✓
65	31 @ 0.50m	Soil	3/7/17		0.0							✓
66	31 @ 1.00m	Soil	3/7/17		0.0							
67	31 @ 1.50m	Soil	3/7/17		0.0						✓	
68	31 @ 2.00m	Soil	3/7/17		0.0					✓		
69	31 @ 2.50m	Soil	3/7/17		0.0							
70	31 @ 3.00m	Soil	3/7/17		0.3							✓
71	30 @ 0.15m	Soil	3/7/17		0.0							✓
72	30 @ 0.50m	Soil	3/7/17		0.0							✓

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04 pm	Transport Co:
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Y= Yes Analysis Required

Report: 552701 / 552720

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Geoaquitards Environmental ABN 80 683 110 579
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
73	30@1.00m	Soil	3/7/17		0.0													
74	30@1.50m	Soil	3/7/17		0.0													
75	30@2.00m	Soil	3/7/17		0.1					✓	✓							
76	30@2.50m	Soil	3/7/17		0.1													
77	30@3.00m	Soil	3/7/17		0.0							✓						
78	DUPLICATE 2	Soil	3/7/17									✓						
79	39@0.15m	Soil	3/7/17		0.0							✓						
80	39@0.50m	Soil	3/7/17		0.1							✓						
81	39@1.00m	Soil	3/7/17		0.2							✓						
82	39@1.50m	Soil	3/7/17		0.1					✓	✓							
83	39@2.00m	Soil	3/7/17		0.7					✓								
84	39@2.50m	Soil	3/7/17		0.5							✓						

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Report: 552701/552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham.~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Norne	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)
85	39C 3.00m	Soil	3/7/17		0.0							
86	32C 0.15m	Soil	3/7/17		0.0							✓
87	32C 0.50m	Soil	3/7/17		0.0							✓
88	32C 1.00m	Soil	3/7/17		0.2							
89	32C 1.50m	Soil	3/7/17		0.7							
90	32C 2.00m	Soil	3/7/17		0.2					✓		
91	32C 2.50m	Soil	3/7/17		0.2							
92	32C 3.00m	Soil	3/7/17		0.2							✓
93	33C 0.15m	Soil	3/7/17		0.1							✓
94	33C 0.50m	Soil	3/7/17		0.2							✓
95	33C 1.00m	Soil	3/7/17		0.1							✓
96	33C 1.50m	Soil	3/7/17		0.0							✓

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04pm	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 | 552720

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Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164
CONTACT NAME: EMMANUEL ERNEST
PHONE NO:03 9554 3258
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948
TURNAROUND TIME: Normal

Job No: RM406-M.1
Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
Date 3/07/2017
EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)	NEPM R20					
No	SAMPLE ID	MATRIX	DATE	Lab ID	Comments	Other												
97	33@2.00m	Soil	3/7/17		0.0					✓								
98	33@2.50m	Soil	3/7/17		0.1													
99	33@3.00m	Soil	3/7/17		0.1							✓						
100	40@0.15m	Soil	3/7/17		0.0							✓						
101	40@0.50m	Soil	3/7/17		0.1													
102	40@1.00m	Soil	3/7/17		0.1								✓					
103	40@1.50m	Soil	3/7/17		1.4		✓											
104	40@2.00m	Soil	3/7/17		0.3													
105	40@2.50m	Soil	3/7/17		1.2													
106	40@3.00m	Soil	3/7/17		1.4							✓						
107	72@0.15m	Soil	3/7/17		0.2							✓						
108	72@0.50m	Soil	3/7/17		0.1							✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST
Date: 3/07/2017
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Time: 1:43

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Name: Tony Wong
Date: 3/7/17
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Time 4:04pm

METHOD OF SHIPMENT

Courier:
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Y= Yes Analysis Required

Report: 552701/552720

COC Page 1 of 3

Geoaquitards Environmental ABN 80 883 110 579
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
109	DUPLICATE3	Soil	3/7/17															
110	72e1.00m	Soil	3/7/17		0.0													
111	b1e0.15m	Soil	3/7/17		0.1					✓		✓						
112	b1e0.50m	Soil	3/7/17		0.0							✓						
113	b1e 1.00m	Soil	3/7/17		0.2													
114	b1e 1.50m	Soil	3/7/17		0.0													
115	b1e 2.00m	Soil	3/7/17		2.3													
116	b1e 2.50m	Soil	3/7/17		1.2							✓						
117	b1e 3.00m	Soil	3/7/17		0.9							✓						
118	S3e0.15m	Soil	3/7/17		0.4					✓		✓						
119	S3e0.50m	Soil	3/7/17		0.1							✓						
120	S3e 1.00m	Soil	3/7/17		0.3							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04pm	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552720

COC Page 1 of 3

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
121	53@1.50m	Soil	3/7/17		0.0						✓							
122	45@0.15m	Soil	3/7/17		0.0					✓		✓						
123	45@0.50m	Soil	3/7/17		00							✓						
124	45@1.00m	Soil	3/7/17		0.0													
125	45@1.50m	Soil	3/7/17		0.0													
126	45@2.00m	Soil	3/7/17		0.0													
127	45@2.50m	Soil	3/7/17		0.0							✓						
128	45@3.00m	Soil	3/7/17		0.3							✓						
129	DUPLICATE 4	Soil	3/7/17		0.							✓						
130	67@0.15m	Soil	3/7/17		0.0					✓		✓						
131	67@0.50m	Soil	3/7/17		0.0					✓		✓						
132	67@1.00m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552720

COC Page 11 of 43

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO.03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)
133	67@1.50m	Soil	3/7/17		0.0							
134	67@2.00m	Soil	3/7/17		0.0					✓		
135	67@2.50m	Soil	3/7/17		0.0							
136	67@3.00m	Soil	3/7/17		0.0							
137	60@0.15m	Soil	3/7/17		0.0							✓
138	60@0.50m	Soil	3/7/17		0.0							✓
139	60@1.00m	Soil	3/7/17		0.0							
140	60@1.50m	Soil	3/7/17		0.0							
141	60@2.00m	Soil	3/7/17		0.0							
142	60@2.50m	Soil	3/7/17		0.1							✓
143	60@3.00m	Soil	3/7/17		0.0							✓
144	52@0.15m	Soil	3/7/17		0.0							✓

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 | 552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 878 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
145	52@0.50m	Soil	3/7/17		0.0							✓						
146	52@1.00m	Soil	3/7/17		0.0					✓		✓						
147	52@1.50m	Soil	3/7/17		0.0													
148	52@2.00m	Soil	3/7/17		0.0							✓						
149	52@2.50m	Soil	3/7/17		0.0							✓						
150	52@3.00m	Soil	3/7/17		0.0							✓						
151	44@0.15m	Soil	3/7/17		0.0					✓								
152	44@0.50m	Soil	3/7/17		0.0													
153	44@1.00m	Soil	3/7/17		0.0													
154	44@1.50m	Soil	3/7/17		0.0													
155	44@2.00m	Soil	3/7/17		0.0					✓								
156	~~44@2.50m~~	Soil	3/7/17															

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

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Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)							
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other													
157	57@0.15m	Soil	3/7/17		0.0					✓		✓							
158	57@0.50m	Soil	3/7/17		0.0							✓							
159	57@1.00m	Soil	3/7/17		0.0							✓							
160	57@1.50m	Soil	3/7/17		0.0														
161	57@2.00m	Soil	3/7/17		0.0														
162	57@2.50m	Soil	3/7/17		0.0							✓							
163	57@3.00m	Soil	3/7/17		0.0														
164	65@0.15m	Soil	3/7/17		0.0					✓		✓							
165	65@0.50m	Soil	3/7/17		0.0														
166	65@1.00m	Soil	3/7/17		0.0							✓							
167	65@1.50m	Soil	3/7/17		0.0														
168	65@2.00m	Soil	3/7/17		0.0							✓							

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Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
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Y= Yes Analysis Required

Report: 552701 / 552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham.~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
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TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
169	65@2.50m	Soil	3/7/17		0.0					✓		✓						
170	65@3.00m	Soil	3/7/17		0.0							✓						
171	76@0.15m	Soil	3/7/17		0.0													
172	76@0.50m	Soil	3/7/17		0.0													
173	76@1.00m	Soil	3/7/17		0.0													
174	76@1.50m	Soil	3/7/17		0.0													
175	76@2.00m	Soil	3/7/17		0.0							✓						
176	76@2.50m	Soil	3/7/17		0.0							✓						
177	76@3.00m	Soil	3/7/17		0.0													
178	75@0.05m	Soil	3/7/17		0.0					✓		✓						
179	75@0.50m	Soil	3/7/17		0.0							✓						
180	75@1.00m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
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Report: 552701/552720.

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)	MEPH R20					
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
181	75@1.50m	Soil	3/7/17		0.0		✓						✓					
182	75@2.00m	Soil	3/7/17		0.0							✓						
183	75@2.50m	Soil	3/7/17		0.0							✓						
184	75@3.00m	Soil	3/7/17		0.0													
185	69@0.15m	Soil	3/7/17		0.0					✓								
186	69@0.50m	Soil	3/7/17		0.0							✓						
187	69@1.00m	Soil	3/7/17		0.0							✓						
188	69@1.50m	Soil	3/7/17		0.0													
189	69@2.00m	Soil	3/7/17		0.0							✓						
190	69@2.50m	Soil	3/7/17		0.0							✓						
191	69@3.00m	Soil	3/7/17		0.0					✓		✓						
192	64@0.15m	Soil	3/7/17		0.0					✓								

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Report: 552701/552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)							
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other													
193	64C 0.50m	Soil	3/7/17		0.0							✓							
194	64C 1.00m	Soil	3/7/17		0.0							✓							
195	64C 1.50m	Soil	3/7/17		0.0														
196	64C 2.00m	Soil	3/7/17		0.2														
197	64C 2.50m	Soil	3/7/17		0.0							✓							
198	64C 3.00m	Soil	3/7/17		0.0														
199	56C 0.15m	Soil	3/7/17		0.0					✓		✓							
200	56C 0.50m	Soil	3/7/17		0.0							✓							
201	56C 1.00m	Soil	3/7/17		0.0														
202	56C 1.50m	Soil	3/7/17		0.0														
203	56C 2.00m	Soil	3/7/17		0.0							✓							
204	56C 2.50m	Soil	3/7/17		0.0														

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wang	Date: 3/7/17	Courier:
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Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: None)	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
205	56@2.00m	Soil	3/7/17		0.0							✓						
206	48@0.15m	Soil	3/7/17		0.0					✓		✓						
207	48@0.50m	Soil	3/7/17		0.0													
208	48@1.00m	Soil	3/7/17		0.0													
209	48@1.50m	Soil	3/7/17		0.0							✓						
210	48@2.00m	Soil	3/7/17		0.0							✓						
211	48@2.50m	Soil	3/7/17		0.0							✓						
212	48@3.00m	Soil	3/7/17		0.0							✓						
213	DUPLICATE5	Soil	3/7/17									✓						
214	DUPLICATE6	Soil	3/7/17									✓						
215	DUPLICATE7	Soil	3/7/17							✓		✓						
216	43@0.15m	Soil	3/7/17		0.0					✓								

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Leong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
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Y= Yes Analysis Required

Report: 552701 / 552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**

Date 3/07/2017

EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Leb ID	(PID) Comments	Other												
217	43E 0.50m	Soil	3/7/17		0.0													
218	43E 1.00m	Soil	3/7/17		0.0							✓						
219	43E 1.50m	Soil	3/7/17		0.0							✓						
220	43E 2.00m	Soil	3/7/17		0.0													
221	43E 2.50m	Soil	3/7/17		0.0							✓						
222	43E 3.00m	Soil	3/7/17		0.0					✓								
223	51E 0.15m	Soil	3/7/17		0.0													
224	51E 0.50m	Soil	3/7/17		0.0													
225	51E 1.00m	Soil	3/7/17		0.0													
226	51E 1.50m	Soil	3/7/17		0.0							✓						
227	51E 2.00m	Soil	3/7/17		0.0													
228	51E 2.50m	Soil	3/7/17		0.0		✓					✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1:45

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Name: Tony Wong Date: 3/7/17

Signature: Time 4:04

METHOD OF SHIPMENT

Courier:

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Y= Yes Analysis Required

Report: 552701 / 552720

Geoaquitards Environmental ABN 80 683 110 579
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
229	S1@ 3.00m	Soil	3/7/17		0.0							✓						
230	S9@ 0.15m	Soil	3/7/17		0.0					✓		✓						
231	S9@ 0.50m	Soil	3/7/17		0.0													
232	S9@ 1.00m	Soil	3/7/17		0.0													
233	S9@ 1.50m	Soil	3/7/17		0.0													
234	S9@ 2.00m	Soil	3/7/17		0.0													
235	S9@ 2.50m	Soil	3/7/17		0.0							✓						
236	S9@ 3.00m	Soil	3/7/17		0.0													
237	T0@ 0.15m	Soil	3/7/17		0.0							✓						
238	T0@ 0.50m	Soil	3/7/17		0.0					✓		✓						
239	T0@ 1.00m	Soil	3/7/17		0.0													
240	T0@ 1.50m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
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Y= Yes Analysis Required

Report: 552701 / 552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~20 Wangara Road, Sandringham~~ 20 Wangara Road, Sandringham

Date 3/07/2017

EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
241	70C 2.00m	Soil	3/7/17		0.0													
242	70C 2.50m	Soil	3/7/17		0.0							✓						
243	70C 3.00m	Soil	3/7/17		0.0							✓						
244	37C 0.15m	Soil	3/7/17		0.0							✓						
245	37C 0.50m	Soil	3/7/17		0.0													
246	37C 1.00m	Soil	3/7/17		0.0													
247	37C 1.50m	Soil	3/7/17		0.0													
248	37C 2.00m	Soil	3/7/17		0.0							✓						
249	37C 2.50m	Soil	3/7/17		0.0							✓						
250	37C 3.00m	Soil	3/7/17		0.0													
251	29C 0.15m	Soil	3/7/17		0.0							✓						
252	29C 0.50m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1:45

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Name: Tony Wong Date: 3/7/17

Signature: Time 4:04

METHOD OF SHIPMENT

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Y= Yes Analysis Required

Report: 552701 / 552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL		Job No:	RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164		Project:	Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST		Date	3/07/2017
PHONE NO:03 9554 3258		EMAIL REPORT TO:geo@iprimus.com.au	Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678	FAX NO:03 9705 7948		
TURNAROUND TIME:	Normal	**ANALYSIS REQUIRED Including SUITES**	

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
253	29C 1.00m	Soil	3/7/17		0.0													
254	29C 1.50m	Soil	3/7/17		0.0													
255	29C 2.00m	Soil	3/7/17		0.0							✓						
256	29C 2.50m	Soil	3/7/17		0.0													
257	28C 0.15m	Soil	3/7/17		0.0							✓						
258	28C 0.50m	Soil	3/7/17		0.0													
259	28C 1.00m	Soil	3/7/17		0.0													
260	28C 1.50m	Soil	3/7/17		0.0													
261	28C 2.00m	Soil	3/7/17		0.0							✓						
262	28C 2.50m	Soil	3/7/17		0.0													
263	28C 3.00m	Soil	3/7/17		0.0							✓						
264	36C 0.15m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wang	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
T (+61) (3) 9554 3258
F (+61) (3) 9705 7948
M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO: geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: None	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(pID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
265	36C 0.50m	Soil	3/7/17		0.0							✓						
266	36C 1.00m	Soil	3/7/17		0.0													
267	36C 1.50m	Soil	3/7/17		0.0													
268	36C 2.00m	Soil	3/7/17		0.0							✓						
269	36C 2.50m	Soil	3/7/17		0.0							✓						
270	36C 3.00m	Soil	3/7/17		0.0							✓						
271	DUPLICATE 8	Soil	3/7/17									✓						
272	35C 0.15m	Soil	3/7/17		0.0							✓						
273	35C 0.50m	Soil	3/7/17		0.0							✓						
274	35C 1.00m	Soil	3/7/17		0.0													
275	35C 1.50m	Soil	3/7/17		0.0				✓									
276	35C 2.00m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL		Job No:	RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164		Project:	Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST		Date	3/07/2017
PHONE NO:03 9554 3258		EMAIL REPORT TO:geo@iprimus.com.au	Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678	FAX NO:03 9705 7948		
TURNAROUND TIME:	Normal	ANALYSIS REQUIRED including SUITES	

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	Comments (PID)	Other												
277	35@2.50m	Soil	3/7/17		0.0							✓						
278	35@3.00m	Soil	3/7/17		0.0							✓						
279	34@0.15m	Soil	3/7/17		0.0													
280	34@0.50m	Soil	3/7/17		0.0													
281	34@1.00m	Soil	3/7/17		0.0													
282	34@1.50m	Soil	3/7/17		0.0													
283	34@2.00m	Soil	3/7/17		0.0							✓						
284	34@2.50m	Soil	3/7/17		0.0							✓						
285	34@3.00m	Soil	3/7/17		0.0													
286	41@0.15m	Soil	3/7/17		0.0							✓						
287	41@0.50m	Soil	3/7/17		0.0							✓						
288	41@1.00m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
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Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL		Job No:	RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164		Project:	Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ 20 Wangara Road, Sandringham
CONTACT NAME: EMMANUEL ERNEST		Date	3/07/2017
PHONE NO:03 9554 3258		EMAIL REPORT TO:geo@iprimus.com.au	Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678	FAX NO:03 9705 7948		
TURNAROUND TIME:	Normal	ANALYSIS REQUIRED including SUITES	

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
289	41E1.50m	Soil	3/7/17		0.0													
290	41E2.00m	Soil	3/7/17		0.0													
291	41E2.50m	Soil	3/7/17		0.0													
292	41E3.00m	Soil	3/7/17		0.0													
293	49E0.15m	Soil	3/7/17		0.0							✓						
294	49E0.50m	Soil	3/7/17		0.0							✓						
295	49E1.00m	Soil	3/7/17		0.0													
296	49E1.50m	Soil	3/7/17		0.0													
297	49E2.00m	Soil	3/7/17		0.0													
298	49E2.50m	Soil	3/7/17		0.0							✓						
299	49E3.00m	Soil	3/7/17		0.0													
300	42E0.15m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
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Y= Yes Analysis Required

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wangara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Norma	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)							
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other													
301	42C0.50m	Soil	3/7/17		0-0														
302	42C1.00m	Soil	3/7/17		0-0														
303	42C1.50m	Soil	3/7/17		0-0														
304	42C2.00m	Soil	3/7/17		0-0														
305	42C2.50m	Soil	3/7/17		0.0							✓							
306	42C3.00m	Soil	3/7/17		0.0							✓							
307	50C0.15m	Soil	3/7/17		0.0														
308	50C0.50m	Soil	3/7/17		0.0														
309	50C1.00m	Soil	3/7/17		0-0			✓											
310	50C1.50m	Soil	3/7/17		0.0														
311	50C2.00m	Soil	3/7/17		0-0														
312	50C2.50m	Soil	3/7/17		0-0							✓							

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

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Geoaquitards Environmental ABN 80 663 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Norma

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**

Date 3/07/2017

EMAIL REPORT TO geo@iprimus.com.au Attention: Emmanuel Ernest

ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	PID Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
313	50@3.00m	Soil	3/7/17		0.0				✓									
314	58@0.15m	Soil	3/7/17		0.0							✓						
315	58@0.50m	Soil	3/7/17		0.0							✓						
316	58@1.00m	Soil	3/7/17		0.0							✓						
317	58@1.50m	Soil	3/7/17		0.0													
318	58@2.00m	Soil	3/7/17		0.0													
319	58@2.50m	Soil	3/7/17		0.0		✓											
320	58@3.00m	Soil	3/7/17		0.0													
321	66@0.15m	Soil	3/7/17		0.0													
322	66@0.50m	Soil	3/7/17		0.0													
323	66@1.00m	Soil	3/7/17		0.0													
324	66@1.50m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1:45

RECEIVED BY

Name: Tony Wong Date: 3/7/17

Signature: Time 4:04

METHOD OF SHIPMENT

Courier:

Hand Delivered:

Transport Co:

Postal

Y= Yes Analysis Required

Report. 552701/552720.

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
T (+61) (3) 9554 3258
F (+61) (3) 9705 7948
M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
325	bbC2.00m	Soil	3/7/17		0.0													
326	bbC 2.50m	Soil	3/7/17		0.0													
327	bbC3.00m	Soil	3/7/17		0.0													
328	80@0.15m	Soil	3/7/17		0.0							✓						
329	80@0.50m	Soil	3/7/17		0.0							✓						
330	80@1.00m	Soil	3/7/17		0.0													
331	80@1.50m	Soil	3/7/17		0.0													
332	80@2.00m	Soil	3/7/17		0.0													
333	80@2.50m	Soil	3/7/17		0.0													
334	80@3.00m	Soil	3/7/17		0.0													
335	79@ 0.15m	Soil	3/7/17		0.0													
336	79@ 0.50m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wang	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
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Report: 552701/552720

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ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham.~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	PID Comments	Other												
337	79E1.00m	Soil	3/7/17		0.0							✓						
338	79E1.50m	Soil	3/7/17		0.0													
339	79E2.00m	Soil	3/7/17		0.0													
340	79E2.50m	Soil	3/7/17		0.0													
341	79E3.00m	Soil	3/7/17		0.0							✓						
342	78E0.15m	Soil	3/7/17		0.0							✓						
343	78E0.50m	Soil	3/7/17		0.0							✓						
344	78E1.00m	Soil	3/7/17		0.0													
345	78E1.50m	Soil	3/7/17		0.0													
346	78E2.00m	Soil	3/7/17		0.0													
347	71E0.15m	Soil	3/7/17		0.0													
348	71E0.50m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
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Report: 552701 / 552720

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Geoaquitards Environmental

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ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Norma	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
349	71C1.00m	Soil	3/7/17		0.0													
350	71C1.50m	Soil	3/7/17		0.0													
351	71C2.00m	Soil	3/7/17		0.0													
352	71C2.50m	Soil	3/7/17		0.0							✓						
353	12C0.15m	Soil	3/7/17		0.0							✓						
354	12C0.50m	Soil	3/7/17		0.0													
355	12C1.00m	Soil	3/7/17		0.0													
356	12C1.50m	Soil	3/7/17		0.0													
357	12C2.00m	Soil	3/7/17		0.0													
358	12C2.50m	Soil	3/7/17		0.0													
359	12C3.00m	Soil	3/7/17		0.0													
360	13C0.15m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
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				Hand Delivered:
Signature:	Time: 1.45	Signature:	Time 4.04	Transport Co:
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Report: 552701 / 552720

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Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

No	SAMPLE ID	MATRIX	DATE	Lab ID	CONTAINER INFORMATION (PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
361	13@0.50m	Soil	3/7/17		0.0							✓						
362	13@1.00m	Soil	3/7/17		0.0													
363	13@1.50m	Soil	3/7/17		0.0													
364	13@2.00m	Soil	3/7/17		0.0				✓									
365	13@2.50m	Soil	3/7/17		0.0													
366	13@3.00m	Soil	3/7/17		0.0							✓						
367	21@0.15m	Soil	3/7/17		0.0							✓						
368	21@0.50m	Soil	3/7/17		0.0													
369	21@1.00m	Soil	3/7/17		0.0													
370	21@1.50m	Soil	3/7/17		0.0													
371	21@2.00m	Soil	3/7/17		0.0													
372	21@2.50m	Soil	3/7/17		0.0				✓									

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:41	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report - 552701 / 552720

Geoaquitards Environmental ABN 80 663 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 878

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
373	21@3.00m	Soil	3/7/17		0.0													
374	22@0.15m	Soil	3/7/17		0.0							✓						
375	22@0.50m	Soil	3/7/17		0.0							✓						
376	22@1.00m	Soil	3/7/17		0.0													
377	22@1.50m	Soil	3/7/17		0.0													
378	22@2.00m	Soil	3/7/17		0.0													
379	22@2.50m	Soil	3/7/17		0.0													
380	23@3.00m	Soil	3/7/17		0.0							✓						
381	20@0.15m	Soil	3/7/17		0.0							✓						
382	20@0.50m	Soil	3/7/17		0.0							✓						
383	20@1.00m	Soil	3/7/17		0.0													
384	20@1.50m	Soil	3/7/17		0.0				✓									

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552702 / 552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	**ANALYSIS REQUIRED including SUITES**

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
385	20E2.00m	Soil	3/7/17		0.0													
386	20E2.50m	Soil	3/7/17		0.0													
387	20E3.00m	Soil	3/7/17		0.0													
388	83E0.15m	Soil	3/7/17		0.0							✓						
389	83E0.50m	Soil	3/7/17		0.0							✓						
390	83E1.00m	Soil	3/7/17		0.0							✓						
391	83E1.50m	Soil	3/7/17		0.0													
392	83E2.00m	Soil	3/7/17		0.0													
393	83E2.50m	Soil	3/7/17		0.0													
394	83E3.00m	Soil	3/7/17		0.0													
395	82E0.15m	Soil	3/7/17		0.0							✓						
396	82E0.50m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552720

Geoaquitards Environmental ABN 60 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wangara Road, Sandringham.~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:gec@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)							
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other													
397	S2C 0.00m	Soil	3/7/17		0.0														
398	S2C 1.50m	Soil	3/7/17		0.0														
399	S2C 2.00m	Soil	3/7/17		0.0		✓												
400	S2C 2.50m	Soil	3/7/17		0.0														
401	S2 C 3.00m	Soil	3/7/17		0.0							✓							
402	S1 C 0.15m	Soil	3/7/17		0.0							✓							
403	S1 C 0.50m	Soil	3/7/17		0.0														
404	S1C 1.00m	Soil	3/7/17		0.0														
405	S1C 1.50m	Soil	3/7/17		0.0														
406	S1C 2.00m	Soil	3/7/17		0.0														
407	S1C 2.50m	Soil	3/7/17		0.0														
408	S1C 3.00m	Soil	3/7/17		0.0														

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: None	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
409	84C0-15m	Soil	3/7/17		0.0							✓						
410	84C0.50m	Soil	3/7/17		0.0							✓						
411	84C 1.00m	Soil	3/7/17		0.0													
412	84C1.50m	Soil	3/7/17		0.0													
413	84C2.00m	Soil	3/7/17		0.0													
414	84C2.50m	Soil	3/7/17		0.0													
415	84C3.00m	Soil	3/7/17		0.0													
416	85C0.15m	Soil	3/7/17		0.0							✓						
417	85C0.50m	Soil	3/7/17		0.0							✓						
418	85C1.00m	Soil	3/7/17		0.0													
419	85C1.50m	Soil	3/7/17		0.0													
420	85C2.00m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
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Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

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Report: 552701/552726

Geoaquitards Environmental ABN 80 683 110 579
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM408-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham.~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3256	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Norma	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No. Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
421	85E2.50m	Soil	3/7/17		0.0													
422	85E3.00m	Soil	3/7/17		0.0													
423	77E0.15m	Soil	3/7/17		0.0													
424	77E0.50m	Soil	3/7/17		0.0													
425	77E1.00m	Soil	3/7/17		0.0													
426	77E1.50m	Soil	3/7/17		0.0													
427	77E2.00m	Soil	3/7/17		0.0													
428	77E2.50m	Soil	3/7/17		0.0													
429	77E3.00m	Soil	3/7/17		0.0							✓						
430	27E0.15m	Soil	3/7/17		0.0							✓						
431	27E0.50m	Soil	3/7/17		0.0													
432	27E1.00m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 11.45	Signature:	Time 4:04	Transport Co:
				Postal

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Report: 552701/552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**

Date 3/07/2017

EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES

Secondary Lab Address

Nc Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
433	27C 1.50m	Soil	3/7/17		0.0													
434	27C 2.00m	Soil	3/7/17		0.0													
435	27C 2.50m	Soil	3/7/17		0.0													
436	27C 3.00m	Soil	3/7/17		0.0													
437	19C 0.15m	Soil	3/7/17		0.0							✓						
438	19C 0.50m	Soil	3/7/17		0.0							✓						
439	19C 1.00m	Soil	3/7/17		0.0													
440	19C 1.50m	Soil	3/7/17		0.0													
441	19C 2.00m	Soil	3/7/17		0.0													
442	19C 2.50m	Soil	3/7/17		0.0													
443	19C 3.00m	Soil	3/7/17		0.0													
444	18C 0.15m	Soil	3/7/17		0.0							✓						

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1:45

RECEIVED BY

Name: Tony Dong Date: 3/7/17

Signature: Time 4:04

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Report: 552701 / 552720

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Geoaquitards Environmental ABN 80 683 110 579
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Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
445	18@0.50m	Soil	3/7/17		0.0							✓						
446	18@1.00m	Soil	3/7/17		0.0													
447	18@1.50m	Soil	3/7/17		0.0													
448	18@2.00m	Soil	3/7/17		0.0													
449	18@2.50m	Soil	3/7/17		0.0													
450	18@3.00m	Soil	3/7/17		0.0													
451	26@0.15m	Soil	3/7/17		0.0							✓						
452	26@0.50m	Soil	3/7/17		0.0							✓						
453	26@1.00m	Soil	3/7/17		0.0													
454	26@1.50m	Soil	3/7/17		0.0													
455	26@2.00m	Soil	3/7/17		0.0													
456	26@2.50m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
457	26@3.00m	Soil	3/7/17		0.0													
458	14@0.15m	Soil	3/7/17		0-0							✓						
459	14@0.50m	Soil	3/7/17		0-0							✓						
460	14@1.00m	Soil	3/7/17		0.0													
461	14@1.50m	Soil	3/7/17		0-0													
462	14@2.00m	Soil	3/7/17		0.0													
463	14@2.50m	Soil	3/7/17		0.0													
464	14@3.00m	Soil	3/7/17		0.0													
465	15@0.15m	Soil	3/7/17		0.0							✓						
466	15@0.50m	Soil	3/7/17		0.0							✓						
467	15@1.00m	Soil	3/7/17		0.0													
468	15@1.50m	Soil	3/7/17		0.0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 | 552720

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)							
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other													
469	15C2.00m	Soil	3/7/17		0-0														
470	15C2.50m	Soil	3/7/17		0-0														
471	15C3.00m	Soil	3/7/17		0-0														
472	17C0.15m	Soil	3/7/17		0.0							✓							
473	17C0.50m	Soil	3/7/17		0.0							✓							
474	17C1.00m	Soil	3/7/17		0.0														
475	17C1.50m	Soil	3/7/17		0.0														
476	17C2.00m	Soil	3/7/17		0.0														
477	17C2.50m	Soil	3/7/17		0.0														
478	17C3.00m	Soil	3/7/17		0-0														
479	25C0.15m	Soil	3/7/17		0-0							✓							
480	25C0.50m	Soil	3/7/17		0-0							✓							

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wang	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701/552720

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Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL

ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164

CONTACT NAME: EMMANUEL ERNEST

PHONE NO:03 9554 3258

MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948

TURNAROUND TIME: Normal

Job No: RM406-M.1

Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**

Date 3/07/2017

EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
481	25@1.00m	Soil	3/7/17		0.0													
482	25@1.50m	Soil	3/7/17		0.0													
483	25@2.00m	Soil	3/7/17		0.0													
484	25@2.50m	Soil	3/7/17		0.0													
485	25@3.00m	Soil	3/7/17		0.0													
486	23@0.15m	Soil	3/7/17		0.0							✓						
487	23@0.50m	Soil	3/7/17		0.0							✓						
488	23@1.00m	Soil	3/7/17		0.0													
489	23@1.50m	Soil	3/7/17		0.0													
490	23@2.00m	Soil	3/7/17		0.0													
491	23@2.50m	Soil	3/7/17		0.0			✓	✓									
492	23@3.00m	Soil	3/7/17		0.0													

RELINQUISHED BY:

Name: EMMANUEL ERNEST Date: 3/07/2017

Signature: Time: 1:45

RECEIVED BY

Name: Tony Wong Date: 3/7/17

Signature: Time 4.04

METHOD OF SHIPMENT

Courier:

Hand Delivered:

Transport Co:

Postal

Y= Yes Analysis Required

Report: 552701 / 552720, 552759

COC Page 4 of 93

Geoaquitards Environmental ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 49, 160 South Gippsland Highway, Dandenong South, VIC 3175
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M 0434 890 678

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~20 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date: 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED Including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)						
No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other												
493	16C 0-15m	Soil	3/7/17		0-0							✓						
494	16C 0.50m	Soil	3/7/17		0-0													
495	16C 1.00m	Soil	3/7/17		0-0													
496	16C 1.50m	Soil	3/7/17		0-0													
497	16C 2.00m	Soil	3/7/17		0-0		✓											
498	16C 2.50m	Soil	3/7/17		0-0		✓											
499	16C 3.00m	Soil	3/7/17		0-0							✓						
500	24C 0.15m	Soil	3/7/17		0-0							✓						
501	24C 0.50m	Soil	3/7/17		0-0													
502	24C 1.00m	Soil	3/7/17		0-0													
503	24C 1.50m	Soil	3/7/17		0-0													
504	24C 2.00m	Soil	3/7/17		0-0													

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45pm	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 / 552759.

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CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL	Job No: RM406-M.1
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164	Project: Sandringham Golf Driving Range- ~~26 Wandgara Road, Sandringham~~ **20 Wangara Road, Sandringham**
CONTACT NAME: EMMANUEL ERNEST	Date 3/07/2017
PHONE NO:03 9554 3258	EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948	
TURNAROUND TIME: Normal	ANALYSIS REQUIRED including SUITES

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water) | CONTAINER INFORMATION

No	SAMPLE ID	MATRIX	DATE	Lab ID	(PID) Comments	Other	IWRG 621 Screens	R 21	B4A	Asbestos	B7	M12 Screen (IWRG Metal Screen)	C6–C9					
505	24C2-50m	Soil	3/7/17		0.0							✓						
506	24C3.00m	Soil	3/7/17		0.0							✓						
507	Rinsate	Soil	3/7/17									✓						
508	Trip	Soil	3/7/17									✓	✓					
509		Soil	3/7/17															
510		Soil	3/7/17															
511		Soil	3/7/17															
512		Soil	3/7/17															
513		Soil	3/7/17															
514		Soil	3/7/17															
515		Soil	3/7/17															
516		Soil	3/7/17															

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: Tony Wong	Date: 3/7/17	Courier:
				Hand Delivered:
Signature:	Time: 1:45pm	Signature:	Time 4:04	Transport Co:
				Postal

Y= Yes Analysis Required

Report: 552701 (~~552720~~.

COC Page 43 of 43

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Geoaquitards Environmental**
Contact name:	Emmanuel Ernest
Project name:	SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID:	RM406-M.1
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jul 3, 2017 4:04 PM
Eurofins | mgt reference:	**552701**

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.

☑ Sample containers for volatile analysis received with zero headspace.

☒ 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:

Mary Makarios on Phone : +61 3 8564 5000 or by e.mail: MaryMakarios@eurofins.com

Results will be delivered electronically via e.mail to Emmanuel Ernest - geo@geoaquitards.com.au.

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Company Name: Geoaquitards Environmental
Address: PO Box 4040
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VIC 3175

Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail	Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271		X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217	X								
Brisbane Laboratory - NATA Site # 20794						X			
Perth Laboratory - NATA Site # 18217									
External Laboratory									

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	73 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02188	X								
2	73 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02189			X	X					
3	73 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02190			X	X					
4	73 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02191				X			X		
5	73 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02192			X	X					
6	68 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02193	X		X	X					
7	68 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02194			X	X					
8	68 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02195				X			X		
9	68 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02196			X	X					

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Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
10	62 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02197	X		X	X					
11	62 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02198			X	X					
12	62 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02199				X			X		
13	54 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02200	X		X	X					
14	54 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02201			X	X					
15	54 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02202			X	X					
16	54 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02203				X			X		
17	54 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02204			X	X					
18	DUPLICATE 1	Jul 03, 2017		Soil	M17-Jl02205			X	X					
19	74 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02206	X		X	X					
20	74 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02207			X	X					
21	74 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02208			X	X					

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Phone: 03 9554 3258
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Received: Jul 3, 2017 4:04 PM
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Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
22	63 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02209			X	X					
23	63 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02210			X	X					
24	63 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02211			X	X					
25	63 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02212				X			X		
26	63 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02213	X								
27	63 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02214			X	X					
28	55 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02215			X	X					
29	55 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02216	X								
30	55 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02217			X	X					
31	55 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02218			X	X					
32	47 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02219			X	X					
33	47 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02220				X			X		

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
34	47 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02221	X								
35	47 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02222			X	X					
36	46 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02223			X	X					
37	46 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02224			X	X					
38	46 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02225	X								
39	46 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02226			X	X					
40	38 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02227			X	X					
41	38 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02228			X	X					
42	38 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02229	X								
43	31 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02230			X	X					
44	31 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02231			X	X					
45	31 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02232	X								

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
46	31 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02233			X	X					
47	30 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02234			X	X					
48	30 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02235			X	X					
49	30 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02236	X								
50	30 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02237			X	X					
51	DUPLICATE 2	Jul 03, 2017		Soil	M17-Jl02238			X	X					
52	39 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02239			X	X					
53	39 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02240			X	X					
54	39 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02241			X	X					
55	39 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02242	X								
56	39 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02243			X	X					
57	32 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02244			X	X					

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Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
58	32 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02245			X	X					
59	32 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02246	X								
60	32 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02247			X	X					
61	33 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02248			X	X					
62	33 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02249			X	X					
63	33 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02250			X	X					
64	33 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02251	X								
65	33 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02252			X	X					
66	40 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02253			X	X					
67	40 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02254				X	X				
68	40 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02255			X	X					
69	72 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02256			X	X					

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Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
70	72 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02257			X	X					
71	61 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02258	X		X	X					
72	61 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02259			X	X					
73	61 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02260			X	X					
74	53 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02261	X		X	X					
75	53 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02262			X	X					
76	53 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02263			X	X					
77	45 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02264	X		X	X					
78	45 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02265			X	X					
79	45 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02266			X	X					
80	DUPLICATE 4	Jul 03, 2017		Soil	M17-Jl02267			X	X					
81	67 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02268			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
82	67 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02269	X		X	X					
83	67 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02270	X								
84	60 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02271			X	X					
85	60 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02272			X	X					
86	60 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02273			X	X					
87	52 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02274			X	X					
88	52 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02275			X	X					
89	52 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02276	X		X	X					
90	52 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02277			X	X					
91	52 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02278			X	X					
92	44 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02279	X								
93	44 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02280	X								

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
94	57 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02281	X		X	X					
95	57 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02282			X	X					
96	57 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02283			X	X					
97	57 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02284			X	X					
98	65 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02285	X		X	X					
99	65 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02286			X	X					
100	65 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02287			X	X					
101	65 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02288	X		X	X					
102	65 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02289			X	X					
103	76 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02290			X	X					
104	75 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02291	X		X	X					
105	75 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02292			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
106	75 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02293				X	X				
107	75 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02294			X	X					
108	75 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02295			X	X					
109	69 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02296	X								
110	69 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02297			X	X					
111	69 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02298			X	X					
112	69 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02299			X	X					
113	69 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02300			X	X					
114	69 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02301			X	X					
115	64 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02302	X								
116	64 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02303			X	X					
117	64 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02304			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
118	64 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02305			X	X					
119	56 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02306	X		X	X					
120	56 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02307			X	X					
121	56 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02308			X	X					
122	56 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02309			X	X					
123	48 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02310	X		X	X					
124	48 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02311			X	X					
125	48 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02312			X	X					
126	48 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02314			X	X					
127	DUPLICATE 5	Jul 03, 2017		Soil	M17-Jl02315			X	X					
128	DUPLICATE 6	Jul 03, 2017		Soil	M17-Jl02316			X	X					
129	DUPLICATE 7	Jul 03, 2017		Soil	M17-Jl02317			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
130	43 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02318	X								
131	43 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02319			X	X					
132	43 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02320			X	X					
133	43 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02321			X	X					
134	51 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02322	X								
135	51 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02323			X	X					
136	51 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02324				X				X	
137	51 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02325			X	X					
138	59 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02326	X		X	X					
139	59 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02327			X	X					
140	70 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02328			X	X					
141	70 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02329	X		X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
142	70 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02330			X	X					
143	70 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02331			X	X					
144	37 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02332			X	X					
145	37 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02333			X	X					
146	37 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02334			X	X					
147	29 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02335			X	X					
148	29 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02336			X	X					
149	29 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02337			X	X					
150	28 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02338			X	X					
151	28 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02339			X	X					
152	28 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02340			X	X					
153	36 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02341			X	X					

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Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
154	36 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02342			X	X					
155	36 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02343			X	X					
156	36 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02344			X	X					
157	36 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02345			X	X					
158	DUPLICATE 8	Jul 03, 2017		Soil	M17-Jl02346			X	X					
159	35 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02347			X	X					
160	35 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02348			X	X					
161	35 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02349				X					X
162	35 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02350			X	X					
163	35 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02351			X	X					
164	35 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02352			X	X					
165	34 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02353			X	X					

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Company Name: Geoaquitards Environmental
Address: PO Box 4040
Dandenong Sth
VIC 3175

Order No.:
Report #: 552701
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 3, 2017 4:04 PM
Due: Jul 10, 2017
Priority: 5 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
166	41 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02354			X	X					
167	41 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02355			X	X					
168	41 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02356			X	X					
169	49 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02357			X	X					
170	49 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02358			X	X					
171	49 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02359			X	X					
172	42 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02360			X	X					
173	42 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02361			X	X					
174	42 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02362			X	X					
175	50 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02363				X		X			
176	50 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02364			X	X					
177	50 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02365				X					X

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
178	58 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02366			X	X					
179	58 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02367			X	X					
180	58 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02368			X	X					
181	58 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02369				X				X	
182	66 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02370			X	X					
183	80 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02371			X	X					
184	80 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02372			X	X					
185	79 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02373			X	X					
186	79 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02374			X	X					
187	78 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02375			X	X					
188	78 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02376			X	X					
189	71 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02377			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
190	12 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02378			X	X					
191	13 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02379			X	X					
192	13 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02380			X	X					
193	13 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02381				X					X
194	13 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02382			X	X					
195	21 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02383			X	X					
196	21 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02384				X					X
197	22 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02385			X	X					
198	22 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02386			X	X					
199	22 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02387			X	X					
200	20 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02388			X	X					
201	20 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02389			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
202	20 @ 1.50M	Jul 03, 2017		Soil	M17-Jl02390				X					X
203	83 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02391			X	X					
204	83 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02392			X	X					
205	83 @ 1.00M	Jul 03, 2017		Soil	M17-Jl02393			X	X					
206	82 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02394			X	X					
207	82 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02395			X	X					
208	82 @ 2.00M	Jul 03, 2017		Soil	M17-Jl02396				X				X	
209	82 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02397			X	X					
210	81 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02398			X	X					
211	84 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02399			X	X					
212	84 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02400			X	X					
213	85 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02401			X	X					

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Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
214	85 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02402			X	X					
215	77 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02403			X	X					
216	27 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02404			X	X					
217	19 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02405			X	X					
218	19 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02406			X	X					
219	18 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02407			X	X					
220	18 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02408			X	X					
221	26 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02409			X	X					
222	26 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02410			X	X					
223	14 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02411			X	X					
224	14 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02412			X	X					
225	15 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02413			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	TRH C6-C9	IWRG 621 Metals : Metals M12	Moisture Set	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	NEPM Screen for Soil Classification	Eurofins | mgt Suite B7	Vic EPA IWRG 621 (Solids)	Eurofins | mgt Suite B4A
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
226	15 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02414			X	X					
227	17 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02415			X	X					
228	17 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02416			X	X					
229	25 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02417			X	X					
230	25 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02418			X	X					
231	23 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02419			X	X					
232	23 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02420			X	X					
233	23 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02421				X		X			X
234	16 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02422			X	X					
235	16 @ 0.50M	Jul 03, 2017		Soil	M17-Jl02423			X	X					
236	16 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02424				X				X	
237	16 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02425			X	X					

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Eurofins | mgt Analytical Services Manager : Mary Makarios

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Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X								
Brisbane Laboratory - NATA Site # 20794											X			
Perth Laboratory - NATA Site # 18217														
238	24 @ 0.15M	Jul 03, 2017		Soil	M17-Jl02426			X	X					
239	24 @ 2.50M	Jul 03, 2017		Soil	M17-Jl02427			X	X					
240	24 @ 3.00M	Jul 03, 2017		Soil	M17-Jl02428			X	X					
241	RINSATE	Jul 03, 2017		Water	M17-Jl02564			X						
242	TRIP	Jul 03, 2017		Water	M17-Jl02565		X							
Test Counts						35	1	204	222	2	2	6	4	6

CHAIN OF CUSTODY DOCUMENTATION Quote #170619GEO

Geoaquitards Environmental

COMPANY NAME: GEOAQUITARDS ENVIRONMENTAL
ADDRESS / OFFICE: PO BOX 4040 DANDENONG SOUTH VIC 3164
CONTACT NAME: EMMANUEL ERNEST
PHONE NO:03 9554 3258
MOBILE NO : 03 0434 890 678 FAX NO:03 9705 7948
TURNAROUND TIME: Normal

Job No: RM406-M.1
Project: Sandringham Golf Driving Range- 20 Wandgara Road, Sandringham
Date 3/07/2017
EMAIL REPORT TO:geo@iprimus.com.au Attention: Emmanuel Ernest

SPECIAL DIRECTIONS & COMMENTS

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED Including SUITES

Secondary Lab Address

No Total Number of samples

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		M12 Screen (IWRG Metal Screen)
No	SAMPLE ID	MATRIX	DATE	Lab ID	Comments	Other	
1	SPLIT1	Soil	3/7/17				✓
2	SPLIT2	Soil	3/7/17				✓
3	SPLIT3	Soil	3/7/17				✓
4	SPLIT4	Soil	3/7/17				✓
5	SPLIT5	Soil	3/7/17				✓
6	SPLIT6	Soil	3/7/17				✓
7	SPLIT7	Soil	3/7/17				✓
8	SPLIT8	Soil	3/7/17				✓
9		Soil	3/7/17				
10		Soil	3/7/17				
11		Soil	3/7/17				
12		Soil	3/7/17				

Environmental Division
Melbourne
Work Order Reference
EM1708657

Telephone + 61-3-8549 9600

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT	
Name: EMMANUEL ERNEST	Date: 3/07/2017	Name: [illegible] AUS	Date: 3/7	Courier:	
				Hand Delivered:	Y
Signature: [signature]	Time: 1:45pm	Signature:	Time 16:30	Transport Co:	
				Postal	

Y= Yes Analysis Required

M12 Screen - IWRG 621 Metals (As,Cd,Cr,Cu,Ni,Pb,Zn,Hg,Mo,Se,Ag,Sn)

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M 0434 890 678

Enviro Sample Vic

From: GE <geo@geoaquitards.com.au>
Sent: Wednesday, 12 July 2017 5:17 PM
To: Enviro Sample Vic
Cc: Mary Makarios
Subject: 3 Days Turaround Additional ASLP tests from Eurofins | mgt Test Results - Report 552701 : Site SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD (RM406-M.1)

Hi Tony

Could you please undertake 3 days turnaround ASLP test for the following samples:

- Test location 48 @ 3.0m - ASLP for lead, arsenic, cadmium, copper, nickel, tin, zinc;
- Test location 68 @ 0.50m - ASLP for benzo pyrene

J102314. - Q339
~~J102194.~~ -
J102194 - Q333.

Regards
EMMANUEL ERNEST
Senior Environmental Scientist
MSc (Geol) BSc (Chem) Grad Dip (Env Mngt)

To Contact **Geoaquitards Environmental**:
ABN 80 683 110 579
Postal Address: PO Box 4040 Dandenong South VIC 3164
Street Address Suite 23, 160 South Gippsland Highway, Dandenong South, VIC 3175
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e-mail: geoaquitards@iprimus.com.au

Geoaquitards Environmental

From: MaryMakarios@eurofins.com [mailto:MaryMakarios@eurofins.com]
Sent: Tuesday, 11 July 2017 6:21 PM
To: geo@geoaquitards.com.au
Subject: Eurofins | mgt Test Results - Report 552701 : Site SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD (RM406-M.1)

Regards

Mary Makarios
Analytical Services Manager

Eurofins | mgt
2-5 Kingston Town Close
OAKLEIGH VIC 3166
AUSTRALIA
Phone: +61 385 645 088

M.F
553942
12/7 5:17PM.

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Oakleigh Vic 3166
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Site # 1254 & 14271

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Geoaquitards Environmental**
Contact name:	Emmanuel Ernest
Project name:	SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID:	RM406-M.1
COC number:	Not provided
Turn around time:	3 Day
Date/Time received:	Jul 12, 2017 5:17 PM
Eurofins | mgt reference:	**553942**

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:

Mary Makarios on Phone : +61 3 8564 5000 or by e.mail: MaryMakarios@eurofins.com

Results will be delivered electronically via e.mail to Emmanuel Ernest - geo@geoaquitards.com.au.

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NATA # 1261
Site # 18217

Company Name: Geoaquitards Environmental
Address: PO Box 4040
Dandenong Sth
VIC 3175

Order No.:
Report #: 553942
Phone: 03 9554 3258
Fax: 03 9705 7948

Received: Jul 12, 2017 5:17 PM
Due: Jul 17, 2017
Priority: 3 Day
Contact Name: Emmanuel Ernest

Project Name: SANDRINGHAM GOLF DRIVING RANGE - 20 WANDGARA ROAD
Project ID: RM406-M.1

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Arsenic	Benzo(a)pyrene	Cadmium	Copper	Lead	Nickel	Tin	Zinc	AUS Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217														
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 18217														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	48@3.0M	Jul 03, 2017		AUS Leachate	M17-Jl13566	X		X	X	X	X	X	X	X
2	68@0.5M	Jul 03, 2017		AUS Leachate	M17-Jl13567		X							X
Test Counts						1	1	1	1	1	1	1	1	2

APPENDIX H

LABORATORY DATA PRESENTATION TABLES FOR SOIL

Geoaquitards Environmental

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
1 AT 0.50M	27/02/2017	M17-Fe28348	535906	0.50 M	FILL, SAND	
1 AT 1.50M	27/02/2017	M17-Fe28349	535906	1.50 M	FILL, sandy CLAY	
1 AT 2.0M	27/02/2017	M17-Fe28350	535906	2.00 M	FILL, silty SAND	
1 AT 3.0M	27/02/2017	M17-Fe28351	535906	3.00 M	FILL, silty SAND	
1 AT 3.50M	27/02/2017	M17-Fe28352	535906	3.50 M	FILL, silty SAND	
10 AT 0.15M	27/02/2017	M17-Fe28369	535906	0.15 M	FILL, silty SAND	
10 AT 0.50M	27/02/2017	M17-Fe28370	535906	0.50 M	FILL, silty SAND	
10 AT 1.0M	27/02/2017	M17-Fe28371	535906	1.00 M	FILL, silty SAND	
11 AT 0.15M	27/02/2017	M17-Fe28372	535906	0.15 M	FILL, silty SAND	
11 AT 1.0M	27/02/2017	M17-Fe28373	535906	1.00 M	FILL, sandy CLAY	
11 AT 1.50M	27/02/2017	M17-Fe28374	535906	1.50 M	FILL, sandy CLAY	
2 AT 1.0M	27/02/2017	M17-Fe28353	535906	1.00 M	FILL, sandy CLAY	Round 1
2 AT 1.50M	27/02/2017	M17-Fe28354	535906	1.50 M	FILL, sandy CLAY	
3 AT 0.50M	27/02/2017	M17-Fe28356	535906	0.50 M	FILL, SAND	
4 AT 0.15M	27/02/2017	M17-Fe28357	535906	0.15 M	FILL, silty SAND	
5 AT 1.50M	27/02/2017	M17-Fe28359	535906	1.50 M	FILL, silty SAND	
6 AT 1.0M	27/02/2017	M17-Fe28361	535906	1.00 M	FILL, silty SAND	
7 AT 0.50M	27/02/2017	M17-Fe28363	535906	0.50 M	FILL, silty SAND	
7 AT 1.0M	27/02/2017	M17-Fe28364	535906	1.00 M	FILL, silty SAND	
8 AT 0.50M	27/02/2017	M17-Fe28365	535906	0.50 M	FILL, silty SAND	
8 AT 1.50M	27/02/2017	M17-Fe28366	535906	1.50 M	FILL, silty SAND	
9 AT 0.15M	27/02/2017	M17-Fe28367	535906	0.15 M	FILL, silty SAND	
9 AT 0.50M	27/02/2017	M17-Fe28368	535906	0.50 M	FILL, silty SAND	
12 @ 0.15M	3/07/2017	M17-Jl02378	552701	0.15 M	FILL, silty SAND	
13 @ 0.15M	3/07/2017	M17-Jl02379	552701	0.15 M	FILL, silty SAND	
13 @ 0.50M	3/07/2017	M17-Jl02380	552701	0.50 M	FILL, silty SAND	
14 @ 0.15M	3/07/2017	M17-Jl02411	552701	0.15 M	FILL, silty SAND	
14 @ 0.50M	3/07/2017	M17-Jl02412	552701	0.50 M	FILL, silty SAND	
15 @ 0.15M	3/07/2017	M17-Jl02413	552701	0.15 M	FILL, silty SAND	
15 @ 0.50M	3/07/2017	M17-Jl02414	552701	0.50 M	FILL, silty SAND	
16 @ 0.15M	3/07/2017	M17-Jl02422	552701	0.15 M	FILL, silty SAND	
16 @ 0.50M	3/07/2017	M17-Jl02423	552701	0.50 M	FILL, silty SAND	
17 @ 0.15M	3/07/2017	M17-Jl02415	552701	0.15 M	FILL, silty SAND	
17 @ 0.50M	3/07/2017	M17-Jl02416	552701	0.50 M	FILL, silty SAND	
20 @ 0.15M	3/07/2017	M17-Jl02388	552701	0.15 M	FILL, silty SAND	
20 @ 0.50M	3/07/2017	M17-Jl02389	552701	0.50 M	FILL, silty SAND	
20 @ 1.50M	3/07/2017	M17-Jl02390	552701	1.50 M	FILL, silty SAND	
21 @ 0.15M	3/07/2017	M17-Jl02383	552701	0.15 M	FILL, silty SAND	
22 @ 0.15M	3/07/2017	M17-Jl02385	552701	0.15 M	FILL, silty SAND	
22 @ 0.50M	3/07/2017	M17-Jl02386	552701	0.50 M	FILL, silty SAND	
24 @ 0.15M	3/07/2017	M17-Jl02426	552701	0.15 M	FILL, silty SAND	
24 @ 2.50M	3/07/2017	M17-Jl02427	552701	2.50 M	FILL, silty SAND	
24 @ 3.00M	3/07/2017	M17-Jl02428	552701	3.00 M	FILL, silty SAND	
25 @ 0.15M	3/07/2017	M17-Jl02417	552701	0.15 M	FILL, silty SAND	
25 @ 0.50M	3/07/2017	M17-Jl02418	552701	0.50 M	FILL, silty SAND	
26 @ 0.15M	3/07/2017	M17-Jl02409	552701	0.15 M	FILL, silty SAND	
26 @ 0.50M	3/07/2017	M17-Jl02410	552701	0.50 M	FILL, silty SAND	
27 @ 0.15M	3/07/2017	M17-Jl02404	552701	0.15 M	FILL, silty SAND	
28 @ 0.15M	3/07/2017	M17-Jl02338	552701	0.15 M	FILL, silty SAND	
28 @ 0.50M	3/07/2017	M17-Jl02339	552701	0.50 M	FILL, silty SAND	
29 @ 0.15M	3/07/2017	M17-Jl02335	552701	0.15 M	FILL, silty SAND	
29 @ 0.50M	3/07/2017	M17-Jl02336	552701	0.50 M	FILL, silty SAND	
29 @ 2.50M	3/07/2017	M17-Jl02337	552701	2.50 M	FILL, silty SAND	
30 @ 0.15M	3/07/2017	M17-Jl02234	552701	0.15 M	FILL, silty SAND	
30 @ 0.50M	3/07/2017	M17-Jl02235	552701	0.50 M	FILL, silty SAND	
30 @ 3.00M	3/07/2017	M17-Jl02237	552701	3.00 M	FILL, silty SAND, Rubbish	
31 @ 0.15M	3/07/2017	M17-Jl02230	552701	0.15 M	FILL, silty SAND	
31 @ 0.50M	3/07/2017	M17-Jl02231	552701	0.50 M	FILL, sandy CLAY	
31 @ 3.00M	3/07/2017	M17-Jl02233	552701	3.00 M	FILL, sandy CLAY, Rubbish	
32 @ 0.15M	3/07/2017	M17-Jl02244	552701	0.15 M	FILL, silty SAND	
32 @ 0.50M	3/07/2017	M17-Jl02245	552701	0.50 M	FILL, silty SAND	
32 @ 3.00M	3/07/2017	M17-Jl02247	552701	3.00 M	FILL, silty SAND	
33 @ 0.15M	3/07/2017	M17-Jl02248	552701	0.15 M	FILL, silty SAND	
33 @ 0.50M	3/07/2017	M17-Jl02249	552701	0.50 M	FILL, silty SAND	
33 @ 1.50M	3/07/2017	M17-Jl02250	552701	1.50 M	FILL, silty SAND	
33 @ 3.00M	3/07/2017	M17-Jl02252	552701	3.00 M	FILL, silty SAND	
34 @ 2.50M	3/07/2017	M17-Jl02353	552701	2.50 M	FILL, silty SAND	
35 @ 0.15M	3/07/2017	M17-Jl02347	552701	0.15 M	FILL, silty SAND	
35 @ 0.50M	3/07/2017	M17-Jl02348	552701	0.50 M	FILL, silty SAND	
36 @ 0.15M	3/07/2017	M17-Jl02341	552701	0.15 M	FILL, silty SAND	
36 @ 0.50M	3/07/2017	M17-Jl02342	552701	0.50 M	FILL, silty SAND	
37 @ 0.15M	3/07/2017	M17-Jl02332	552701	0.15 M	FILL, silty SAND	
37 @ 0.50M	3/07/2017	M17-Jl02333	552701	0.50 M	FILL, sandy CLAY	
37 @ 2.50M	3/07/2017	M17-Jl02334	552701	2.50 M	FILL, silty SAND	
38 @ 0.15M	3/07/2017	M17-Jl02227	552701	0.15 M	FILL, silty SAND	

		OCP		BTEX					
		Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.2	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health								
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space				**120**	**5300**	**18000**			**15000**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**360**	**64**	**560**			**300**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**440**	**69**	**640**			**330**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**430**	**68**	**630**			**330**
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.								
ANZECC 1992									
US EPA ECO-SSL									
CSQG Residential/Parkland Use									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil				65		105			
0-2m					125				45
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									
0-2m				50	70	85			105
1 AT 0.50M		-	-	-	-	-	-	-	-
1 AT 1.50M		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
1 AT 2.0M		-	-	-	-	-	-	-	-
1 AT 3.0M		-	-	-	-	-	-	-	-
1 AT 3.50M		-	-	-	-	-	-	-	-
10 AT 0.15M		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
10 AT 0.50M		-	-	-	-	-	-	-	-
10 AT 1.0M		-	-	-	-	-	-	-	-
11 AT 0.15M		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
11 AT 1.0M		-	-	-	-	-	-	-	-
11 AT 1.50M		-	-	-	-	-	-	-	-
2 AT 1.0M		0.545	0.42	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
2 AT 1.50M		-	-	-	-	-	-	-	-
3 AT 0.50M		-	-	-	-	-	-	-	-
4 AT 0.15M		-	-	-	-	-	-	-	-
5 AT 1.50M		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
6 AT 1.0M		-	-	-	-	-	-	-	-
7 AT 0.50M		-	-	-	-	-	-	-	-
7 AT 1.0M		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
8 AT 0.50M		-	-	-	-	-	-	-	-
8 AT 1.50M		-	-	-	-	-	-	-	-
9 AT 0.15M		-	-	-	-	-	-	-	-
9 AT 0.50M		-	-	-	-	-	-	-	-
12 @ 0.15M		-	-	-	-	-	-	-	-
13 @ 0.15M		-	-	-	-	-	-	-	-
13 @ 0.50M		-	-	-	-	-	-	-	-
14 @ 0.15M		-	-	-	-	-	-	-	-
14 @ 0.50M		-	-	-	-	-	-	-	-
15 @ 0.15M		-	-	-	-	-	-	-	-
15 @ 0.50M		-	-	-	-	-	-	-	-
16 @ 0.15M		-	-	-	-	-	-	-	-
16 @ 0.50M		-	-	-	-	-	-	-	-
17 @ 0.15M		-	-	-	-	-	-	-	-
17 @ 0.50M		-	-	-	-	-	-	-	-
20 @ 0.15M		-	-	-	-	-	-	-	-
20 @ 0.50M		-	-	-	-	-	-	-	-
20 @ 1.50M		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
21 @ 0.15M		-	-	-	-	-	-	-	-
22 @ 0.15M		-	-	-	-	-	-	-	-
22 @ 0.50M		-	-	-	-	-	-	-	-
24 @ 0.15M		-	-	-	-	-	-	-	-
24 @ 2.50M		-	-	-	-	-	-	-	-
24 @ 3.00M		-	-	-	-	-	-	-	-
25 @ 0.15M		-	-	-	-	-	-	-	-
25 @ 0.50M		-	-	-	-	-	-	-	-
26 @ 0.15M		-	-	-	-	-	-	-	-
26 @ 0.50M		-	-	-	-	-	-	-	-
27 @ 0.15M		-	-	-	-	-	-	-	-
28 @ 0.15M		-	-	-	-	-	-	-	-
28 @ 0.50M		-	-	-	-	-	-	-	-
29 @ 0.15M		-	-	-	-	-	-	-	-
29 @ 0.50M		-	-	-	-	-	-	-	-
29 @ 2.50M		-	-	-	-	-	-	-	-
30 @ 0.15M		-	-	-	-	-	-	-	-
30 @ 0.50M		-	-	-	-	-	-	-	-
30 @ 3.00M		-	-	-	-	-	-	-	-
31 @ 0.15M		-	-	-	-	-	-	-	-
31 @ 0.50M		-	-	-	-	-	-	-	-
31 @ 3.00M		-	-	-	-	-	-	-	-
32 @ 0.15M		-	-	-	-	-	-	-	-
32 @ 0.50M		-	-	-	-	-	-	-	-
32 @ 3.00M		-	-	-	-	-	-	-	-
33 @ 0.15M		-	-	-	-	-	-	-	-
33 @ 0.50M		-	-	-	-	-	-	-	-
33 @ 1.50M		-	-	-	-	-	-	-	-
33 @ 3.00M		-	-	-	-	-	-	-	-
34 @ 2.50M		-	-	-	-	-	-	-	-
35 @ 0.15M		-	-	-	-	-	-	-	-
35 @ 0.50M		-	-	-	-	-	-	-	-
36 @ 0.15M		-	-	-	-	-	-	-	-
36 @ 0.50M		-	-	-	-	-	-	-	-
37 @ 0.15M		-	-	-	-	-	-	-	-
37 @ 0.50M		-	-	-	-	-	-	-	-
37 @ 2.50M		-	-	-	-	-	-	-	-
38 @ 0.15M		-	-	-	-	-	-	-	-

	Chlorinated Hydrocarbons														
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CSQG Residential/Parkland Use				5											
1 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1 AT 2.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
11 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
8 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Chlorinated Hydrocarbons (continued)														
	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5		
1 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
1 AT 2.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
10 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
11 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
2 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
6 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
8 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Halogenated Benzenes								Halogenated Hydrocarbons					Halogenated Phenols				
	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil								**10**										
1 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
1 AT 2.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
10 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
11 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.07	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
2 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
6 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
8 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5
21 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix H
Laboratory Data Compilation
Sandringham Golf Driving Range (20 Wangara Road, Sandringham)

Geoaquitards Environmental

							OCP		BTEX					
							Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL									0.1	0.1	0.1	0.2	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil						Human health								
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space									120	5300	18000			15000
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand														
0-1m									NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									360	64	560			300
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt														
0-1m									NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									440	69	640			330
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay														
0-1m									NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									430	68	630			330
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space						Maintenance of (highly modified) ecosystems.								
ANZECC 1992														
US EPA ECO-SSL														
CSQG Residential/Parkland Use														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil									65		105			
0-2m										125				45
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil														
0-2m									50	70	85			105
Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds								
38 @ 0.50M	3/07/2017	M17-JI02228	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
39 @ 0.15M	3/07/2017	M17-JI02239	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
39 @ 0.50M	3/07/2017	M17-JI02240	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
39 @ 1.00M	3/07/2017	M17-JI02241	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
39 @ 2.50M	3/07/2017	M17-JI02243	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
40 @ 0.15M	3/07/2017	M17-JI02253	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
40 @ 1.50M	3/07/2017	M17-JI02254	552701	1.50 M	FILL, silty SAND, Rubbish		0.425	0.3	-	-	-	-	-	-
40 @ 3.00M	3/07/2017	M17-JI02255	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
41 @ 0.15M	3/07/2017	M17-JI02354	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
41 @ 0.50M	3/07/2017	M17-JI02355	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
41 @ 1.00M	3/07/2017	M17-JI02356	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
42 @ 0.15M	3/07/2017	M17-JI02360	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
42 @ 2.50M	3/07/2017	M17-JI02361	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
42 @ 3.00M	3/07/2017	M17-JI02362	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
43 @ 1.50M	3/07/2017	M17-JI02319	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
45 @ 0.15M	3/07/2017	M17-JI02264	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
45 @ 0.50M	3/07/2017	M17-JI02265	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
45 @ 3.00M	3/07/2017	M17-JI02266	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
46 @ 0.15M	3/07/2017	M17-JI02223	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
46 @ 1.00M	3/07/2017	M17-JI02224	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
46 @ 3.00M	3/07/2017	M17-JI02226	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
47 @ 0.15M	3/07/2017	M17-JI02219	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
47 @ 1.50M	3/07/2017	M17-JI02220	552701	1.50 M	FILL, silty SAND		-	-	0.1	<0.1	<0.1	1.5	0.5	2
47 @ 3.00M	3/07/2017	M17-JI02222	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
48 @ 0.15M	3/07/2017	M17-JI02310	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
48 @ 1.50M	3/07/2017	M17-JI02311	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
48 @ 2.00M	3/07/2017	M17-JI02312	552701	2.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
48 @ 3.00M	3/07/2017	M17-JI02314	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
49 @ 0.15M	3/07/2017	M17-JI02357	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
49 @ 0.50M	3/07/2017	M17-JI02358	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
49 @ 2.00M	3/07/2017	M17-JI02359	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
51 @ 1.50M	3/07/2017	M17-JI02323	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
51 @ 2.50M	3/07/2017	M17-JI02324	552701	2.50 M	FILL, clayey SAND, Rubbish		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
51 @ 3.00M	3/07/2017	M17-JI02325	552701	3.00 M	FILL, clayey SAND, Rubbish		-	-	-	-	-	-	-	-
52 @ 0.15M	3/07/2017	M17-JI02274	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
52 @ 0.50M	3/07/2017	M17-JI02275	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
52 @ 1.00M	3/07/2017	M17-JI02276	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
52 @ 2.50M	3/07/2017	M17-JI02277	552701	2.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
52 @ 3.00M	3/07/2017	M17-JI02278	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
53 @ 0.15M	3/07/2017	M17-JI02261	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
53 @ 0.50M	3/07/2017	M17-JI02262	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
53 @ 1.00M	3/07/2017	M17-JI02263	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
54 @ 0.15M	3/07/2017	M17-JI02200	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
54 @ 0.50M	3/07/2017	M17-JI02201	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
54 @ 1.00M	3/07/2017	M17-JI02202	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
54 @ 2.50M	3/07/2017	M17-JI02203	552701	2.50 M	FILL, sandy CLAY, Rubbish		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
54 @ 3.00M	3/07/2017	M17-JI02204	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
55 @ 0.50M	3/07/2017	M17-JI02215	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
55 @ 2.50M	3/07/2017	M17-JI02217	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
55 @ 3.00M	3/07/2017	M17-JI02218	552701	3.00 M	FILL, silty SAND, Rubbish	Round 2	-	-	-	-	-	-	-	-
56 @ 0.15M	3/07/2017	M17-JI02306	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
56 @ 0.50M	3/07/2017	M17-JI02307	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
56 @ 2.00M	3/07/2017	M17-JI02308	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
56 @ 3.00M	3/07/2017	M17-JI02309	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
57 @ 0.15M	3/07/2017	M17-JI02281	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
57 @ 0.50M	3/07/2017	M17-JI02282	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
57 @ 1.00M	3/07/2017	M17-JI02283	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
57 @ 2.50M	3/07/2017	M17-JI02284	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
58 @ 0.15M	3/07/2017	M17-JI02366	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
58 @ 0.50M	3/07/2017	M17-JI02367	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
58 @ 1.00M	3/07/2017	M17-JI02368	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
59 @ 0.15M	3/07/2017	M17-JI02326	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
59 @ 2.50M	3/07/2017	M17-JI02327	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
60 @ 0.15M	3/07/2017	M17-JI02271	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
60 @ 0.50M	3/07/2017	M17-JI02272	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
60 @ 3.00M	3/07/2017	M17-JI02273	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
61 @ 0.15M	3/07/2017	M17-JI02258	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
61 @ 0.50M	3/07/2017	M17-JI02259	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
61 @ 3.00M	3/07/2017	M17-JI02260	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
62 @ 0.15M	3/07/2017	M17-JI02197	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
62 @ 0.50M	3/07/2017	M17-JI02198	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
62 @ 1.50M	3/07/2017	M17-JI02199	552701	1.50 M	FILL, silty SAND		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
63 @ 0.15M	3/07/2017	M17-JI02209	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
63 @ 0.50M	3/07/2017	M17-JI02210	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
63 @ 1.00M	3/07/2017	M17-JI02211	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-

	Chlorinated Hydrocarbons																													
Field ID	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5		
CSQG Residential/Parkland Use				5																										
38 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 2.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8	<7
51 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Halogenated Benzenes								Halogenated Hydrocarbons					Halogenated Phenols				
Field ID	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil								10										
38 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 1.50M	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-
40 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 2.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
51 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Geoaquitards Environmental

							OCP		BTEX					
							Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL									0.1	0.1	0.1	0.2	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space									120	5300	18000			15000
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand														
0-1m									NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									360	64	560			300
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt														
0-1m	Human health								NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									440	69	640			330
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay														
0-1m									NL	NL	NL			NL
1-2m									NL	NL	NL			NL
2-4m									NL	NL	NL			NL
Csat									430	68	630			330
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space														
ANZECC 1992														
US EPA ECO-SSL														
CSQG Residential/Parkland Use														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.								65		105			
0-2m										125				45
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil														
0-2m									50	70	85			105
Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds								
63 @ 1.50M	3/07/2017	M17-Jl02212	552701	1.50 M	FILL, silty SAND		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
63 @ 3.00M	3/07/2017	M17-Jl02214	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
64 @ 0.50M	3/07/2017	M17-Jl02303	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
64 @ 1.00M	3/07/2017	M17-Jl02304	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
64 @ 2.50M	3/07/2017	M17-Jl02305	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
65 @ 0.15M	3/07/2017	M17-Jl02285	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
65 @ 1.00M	3/07/2017	M17-Jl02286	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
65 @ 2.00M	3/07/2017	M17-Jl02287	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
65 @ 2.50M	3/07/2017	M17-Jl02288	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
65 @ 3.00M	3/07/2017	M17-Jl02289	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
66 @ 1.50M	3/07/2017	M17-Jl02370	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
67 @ 0.15M	3/07/2017	M17-Jl02268	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
67 @ 0.50M	3/07/2017	M17-Jl02269	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
68 @ 0.15M	3/07/2017	M17-Jl02193	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
68 @ 0.50M	3/07/2017	M17-Jl02194	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
68 @ 1.50M	3/07/2017	M17-Jl02195	552701	1.50 M	FILL, sandy CLAY		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
68 @ 2.00M	3/07/2017	M17-Jl02196	552701	2.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
69 @ 0.50M	3/07/2017	M17-Jl02297	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
69 @ 1.00M	3/07/2017	M17-Jl02298	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
69 @ 2.00M	3/07/2017	M17-Jl02299	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
69 @ 2.50M	3/07/2017	M17-Jl02300	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
69 @ 3.00M	3/07/2017	M17-Jl02301	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
70 @ 0.15M	3/07/2017	M17-Jl02328	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
70 @ 0.50M	3/07/2017	M17-Jl02329	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
70 @ 1.50M	3/07/2017	M17-Jl02330	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
70 @ 3.00M	3/07/2017	M17-Jl02331	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
71 @ 2.50M	3/07/2017	M17-Jl02377	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
72 @ 0.15M	3/07/2017	M17-Jl02256	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
72 @ 0.50M	3/07/2017	M17-Jl02257	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
73 @ 0.50M	3/07/2017	M17-Jl02189	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
73 @ 1.00M	3/07/2017	M17-Jl02190	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
73 @ 1.50M	3/07/2017	M17-Jl02191	552701	1.50 M	FILL, sandy CLAY		-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
73 @ 3.00M	3/07/2017	M17-Jl02192	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
74 @ 0.15M	3/07/2017	M17-Jl02206	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
74 @ 0.50M	3/07/2017	M17-Jl02207	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
74 @ 3.00M	3/07/2017	M17-Jl02208	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
75 @ 0.15M	3/07/2017	M17-Jl02291	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
75 @ 0.50M	3/07/2017	M17-Jl02292	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
75 @ 1.50M	3/07/2017	M17-Jl02293	552701	1.50 M	FILL, silty SAND, Rubbish		<0.7	<0.45	-	-	-	-	-	-
75 @ 2.00M	3/07/2017	M17-Jl02294	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
75 @ 2.50M	3/07/2017	M17-Jl02295	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
76 @ 2.50M	3/07/2017	M17-Jl02290	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
77 @ 3.00M	3/07/2017	M17-Jl02403	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
78 @ 0.15M	3/07/2017	M17-Jl02375	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
78 @ 0.50M	3/07/2017	M17-Jl02376	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
79 @ 1.00M	3/07/2017	M17-Jl02373	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
79 @ 3.00M	3/07/2017	M17-Jl02374	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
80 @ 0.15M	3/07/2017	M17-Jl02371	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
80 @ 0.50M	3/07/2017	M17-Jl02372	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
81 @ 0.15M	3/07/2017	M17-Jl02398	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
82 @ 0.15M	3/07/2017	M17-Jl02394	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
82 @ 0.50M	3/07/2017	M17-Jl02395	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
82 @ 2.00M	3/07/2017	M17-Jl02396	552701	2.00 M	FILL, silty SAND, Rubbish		<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
82 @ 3.00M	3/07/2017	M17-Jl02397	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
83 @ 0.15M	3/07/2017	M17-Jl02391	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
83 @ 0.50M	3/07/2017	M17-Jl02392	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
83 @ 1.00M	3/07/2017	M17-Jl02393	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-
84 @ 0.15M	3/07/2017	M17-Jl02399	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
84 @ 0.50M	3/07/2017	M17-Jl02400	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
85 @ 0.15M	3/07/2017	M17-Jl02401	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-
85 @ 0.50M	3/07/2017	M17-Jl02402	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
DUPLICATE 1	3/07/2017	M17-Jl02205	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
DUPLICATE 2	3/07/2017	M17-Jl02238	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
DUPLICATE 4	3/07/2017	M17-Jl02267	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
DUPLICATE 5	3/07/2017	M17-Jl02315	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
DUPLICATE 6	3/07/2017	M17-Jl02316	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
DUPLICATE 7	3/07/2017	M17-Jl02317	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
DUPLICATE 8	3/07/2017	M17-Jl02346	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
SPLIT 1	3/07/2017	EM1708657001	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
SPLIT 2	3/07/2017	EM1708657002	EM1708657	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-
SPLIT 3	3/07/2017	EM1708657003	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-
SPLIT 4	3/07/2017	EM1708657004	EM1708657	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-
SPLIT 5	3/07/2017	EM1708657005	EM1708657	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
SPLIT 6	3/07/2017	EM1708657006	EM1708657	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-
SPLIT 7	3/07/2017	EM1708657007	EM1708657	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-

	Chlorinated Hydrocarbons																													
Field ID	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5		
CSQG Residential/Parkland Use				5																										
63 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 2.00M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8	<7
82 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Halogenated Benzenes								Halogenated Hydrocarbons					Halogenated Phenols				
Field ID	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil								10										
63 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 1.50M	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
75 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 2.00M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
82 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix H
Laboratory Data Compilation
Sandringham Golf Driving Range (20 Wangara Road, Sandringham)

Geoaquitards Environmental

		OCP		BTEX					
		Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.2	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil	**Human health**								
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space				**120**	**5300**	**18000**			**15000**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**360**	**64**	**560**			**300**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**440**	**69**	**640**			**330**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay									
0-1m				**NL**	**NL**	**NL**			**NL**
1-2m				**NL**	**NL**	**NL**			**NL**
2-4m				**NL**	**NL**	**NL**			**NL**
Csat				**430**	**68**	**630**			**330**
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.								
ANZECC 1992									
US EPA ECO-SSL									
CSQG Residential/Parkland Use									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil				65		105			
0-2m					125				45
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									
0-2m				50	70	85			105
SPLIT 8		-	-	-	-	-	-	-	-
Statistical Summary									
Number of Results		10	10	15	15	15	15	15	15
Minimum Concentration		0.425	0.3	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
Maximum Concentration		<1	<0.75	0.1	<0.1	<0.1	1.5	0.5	2
Average Concentration		0.48	0.36	0.053	0.05	0.05	0.19	0.08	0.27
Median Concentration		0.5	0.375	0.05	0.05	0.05	0.1	0.05	0.15
Standard Deviation		0.055	0.055	0.013	0	0	0.36	0.12	0.48
Geometric Standard Deviation		1.1	1.2	1.2			2	1.8	2
95% ProUCL	95% Chebyshev (Mean, Sd) UCL								
	95% Student's-t UCL								

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
SPLIT 8	3/07/2017	EM1708657008	EM1708657	0.50 M	FILL, silty SAND	

	Chlorinated Hydrocarbons														
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil															
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space															
ANZECC 1992															
US EPA ECO-SSL															
CSQG Residential/Parkland Use				5											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil															
0-2m															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil															
0-2m															
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Results	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geometric Standard Deviation															
95% Chebyshev (Mean, Sd) UCL															
95% Student's-t UCL															

	Chlorinated Hydrocarbons (continued)														
	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5		
NEPM 2013 Table 1A(1) HILs Rec C Soil															
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay															
0-1m															
1-2m															
2-4m															
Csat															
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space															
ANZECC 1992															
US EPA ECO-SSL															
CSQG Residential/Parkland Use															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil															
0-2m															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil															
0-2m															
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Results	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<7.4	<6.7
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8	<7
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.14	0.25	0.25	0.25	0.25	0.25	3.8	3.4
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	3.7	3.35
Standard Deviation	0	0	0	0	0	0	0	0.069	0	0	0	0	0	0.14	0.069
Geometric Standard Deviation								1.5						1	1
95% Chebyshev (Mean, Sd) UCL															
95% Student's-t UCL															

	Halogenated Benzenes								Halogenated Hydrocarbons					Halogenated Phenols				
	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil								**10**										
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																		
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																		
0-1m																		
1-2m																		
2-4m																		
Csat																		
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																		
0-1m																		
1-2m																		
2-4m																		
Csat																		
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																		
0-1m																		
1-2m																		
2-4m																		
Csat																		
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																		
ANZECC 1992																		
US EPA ECO-SSL																		
CSQG Residential/Parkland Use																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																		
0-2m																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																		
0-2m																		
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Results	8	8	8	8	8	8	8	10	8	8	8	8	8	9	9	9	9	9
Minimum Concentration	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5
Average Concentration	0.14	0.25	0.25	0.25	0.25	0.25	0.25	0.037	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25
Median Concentration	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.025	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25
Standard Deviation	0.069	0	0	0	0	0	0	0.026	0	0	0	0	0	0	0	0	0	0
Geometric Standard Deviation	1.5							1.7										
95% Chebyshev (Mean, Sd) UCL																		
95% Student's-t UCL																		

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

Geoaquitards Environmental

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
1 AT 0.50M	27/02/2017	M17-Fe28348	535906	0.50 M	FILL, SAND	Round 1
1 AT 1.50M	27/02/2017	M17-Fe28349	535906	1.50 M	FILL, sandy CLAY	
1 AT 2.0M	27/02/2017	M17-Fe28350	535906	2.00 M	FILL, silty SAND	
1 AT 3.0M	27/02/2017	M17-Fe28351	535906	3.00 M	FILL, silty SAND	
1 AT 3.50M	27/02/2017	M17-Fe28352	535906	3.50 M	FILL, silty SAND	
10 AT 0.15M	27/02/2017	M17-Fe28369	535906	0.15 M	FILL, silty SAND	
10 AT 0.50M	27/02/2017	M17-Fe28370	535906	0.50 M	FILL, silty SAND	
10 AT 1.0M	27/02/2017	M17-Fe28371	535906	1.00 M	FILL, silty SAND	
11 AT 0.15M	27/02/2017	M17-Fe28372	535906	0.15 M	FILL, silty SAND	
11 AT 1.0M	27/02/2017	M17-Fe28373	535906	1.00 M	FILL, sandy CLAY	
11 AT 1.50M	27/02/2017	M17-Fe28374	535906	1.50 M	FILL, sandy CLAY	
2 AT 1.0M	27/02/2017	M17-Fe28353	535906	1.00 M	FILL, sandy CLAY	
2 AT 1.50M	27/02/2017	M17-Fe28354	535906	1.50 M	FILL, sandy CLAY	
3 AT 0.50M	27/02/2017	M17-Fe28356	535906	0.50 M	FILL, SAND	
4 AT 0.15M	27/02/2017	M17-Fe28357	535906	0.15 M	FILL, silty SAND	
5 AT 1.50M	27/02/2017	M17-Fe28359	535906	1.50 M	FILL, silty SAND	
6 AT 1.0M	27/02/2017	M17-Fe28361	535906	1.00 M	FILL, silty SAND	
7 AT 0.50M	27/02/2017	M17-Fe28363	535906	0.50 M	FILL, silty SAND	
7 AT 1.0M	27/02/2017	M17-Fe28364	535906	1.00 M	FILL, silty SAND	
8 AT 0.50M	27/02/2017	M17-Fe28365	535906	0.50 M	FILL, silty SAND	
8 AT 1.50M	27/02/2017	M17-Fe28366	535906	1.50 M	FILL, silty SAND	
9 AT 0.15M	27/02/2017	M17-Fe28367	535906	0.15 M	FILL, silty SAND	
9 AT 0.50M	27/02/2017	M17-Fe28368	535906	0.50 M	FILL, silty SAND	
12 @ 0.15M	3/07/2017	M17-Jl02378	552701	0.15 M	FILL, silty SAND	
13 @ 0.15M	3/07/2017	M17-Jl02379	552701	0.15 M	FILL, silty SAND	
13 @ 0.50M	3/07/2017	M17-Jl02380	552701	0.50 M	FILL, silty SAND	
14 @ 0.15M	3/07/2017	M17-Jl02411	552701	0.15 M	FILL, silty SAND	
14 @ 0.50M	3/07/2017	M17-Jl02412	552701	0.50 M	FILL, silty SAND	
15 @ 0.15M	3/07/2017	M17-Jl02413	552701	0.15 M	FILL, silty SAND	
15 @ 0.50M	3/07/2017	M17-Jl02414	552701	0.50 M	FILL, silty SAND	
16 @ 0.15M	3/07/2017	M17-Jl02422	552701	0.15 M	FILL, silty SAND	
16 @ 0.50M	3/07/2017	M17-Jl02423	552701	0.50 M	FILL, silty SAND	
17 @ 0.15M	3/07/2017	M17-Jl02415	552701	0.15 M	FILL, silty SAND	
17 @ 0.50M	3/07/2017	M17-Jl02416	552701	0.50 M	FILL, silty SAND	
20 @ 0.15M	3/07/2017	M17-Jl02388	552701	0.15 M	FILL, silty SAND	
20 @ 0.50M	3/07/2017	M17-Jl02389	552701	0.50 M	FILL, silty SAND	
20 @ 1.50M	3/07/2017	M17-Jl02390	552701	1.50 M	FILL, silty SAND	
21 @ 0.15M	3/07/2017	M17-Jl02383	552701	0.15 M	FILL, silty SAND	
22 @ 0.15M	3/07/2017	M17-Jl02385	552701	0.15 M	FILL, silty SAND	
22 @ 0.50M	3/07/2017	M17-Jl02386	552701	0.50 M	FILL, silty SAND	
24 @ 0.15M	3/07/2017	M17-Jl02426	552701	0.15 M	FILL, silty SAND	
24 @ 2.50M	3/07/2017	M17-Jl02427	552701	2.50 M	FILL, silty SAND	
24 @ 3.00M	3/07/2017	M17-Jl02428	552701	3.00 M	FILL, silty SAND	
25 @ 0.15M	3/07/2017	M17-Jl02417	552701	0.15 M	FILL, silty SAND	
25 @ 0.50M	3/07/2017	M17-Jl02418	552701	0.50 M	FILL, silty SAND	
26 @ 0.15M	3/07/2017	M17-Jl02409	552701	0.15 M	FILL, silty SAND	
26 @ 0.50M	3/07/2017	M17-Jl02410	552701	0.50 M	FILL, silty SAND	
27 @ 0.15M	3/07/2017	M17-Jl02404	552701	0.15 M	FILL, silty SAND	
28 @ 0.15M	3/07/2017	M17-Jl02338	552701	0.15 M	FILL, silty SAND	
28 @ 0.50M	3/07/2017	M17-Jl02339	552701	0.50 M	FILL, silty SAND	
29 @ 0.15M	3/07/2017	M17-Jl02335	552701	0.15 M	FILL, silty SAND	
29 @ 0.50M	3/07/2017	M17-Jl02336	552701	0.50 M	FILL, silty SAND	
29 @ 2.50M	3/07/2017	M17-Jl02337	552701	2.50 M	FILL, silty SAND	
30 @ 0.15M	3/07/2017	M17-Jl02234	552701	0.15 M	FILL, silty SAND	
30 @ 0.50M	3/07/2017	M17-Jl02235	552701	0.50 M	FILL, silty SAND	
30 @ 3.00M	3/07/2017	M17-Jl02237	552701	3.00 M	FILL, silty SAND, Rubbish	
31 @ 0.15M	3/07/2017	M17-Jl02230	552701	0.15 M	FILL, silty SAND	
31 @ 0.50M	3/07/2017	M17-Jl02231	552701	0.50 M	FILL, sandy CLAY	
31 @ 3.00M	3/07/2017	M17-Jl02233	552701	3.00 M	FILL, sandy CLAY, Rubbish	
32 @ 0.15M	3/07/2017	M17-Jl02244	552701	0.15 M	FILL, silty SAND	
32 @ 0.50M	3/07/2017	M17-Jl02245	552701	0.50 M	FILL, silty SAND	
32 @ 3.00M	3/07/2017	M17-Jl02247	552701	3.00 M	FILL, silty SAND	
33 @ 0.15M	3/07/2017	M17-Jl02248	552701	0.15 M	FILL, silty SAND	
33 @ 0.50M	3/07/2017	M17-Jl02249	552701	0.50 M	FILL, silty SAND	
33 @ 1.50M	3/07/2017	M17-Jl02250	552701	1.50 M	FILL, silty SAND	
33 @ 3.00M	3/07/2017	M17-Jl02252	552701	3.00 M	FILL, silty SAND	
34 @ 2.50M	3/07/2017	M17-Jl02353	552701	2.50 M	FILL, silty SAND	
35 @ 0.15M	3/07/2017	M17-Jl02347	552701	0.15 M	FILL, silty SAND	
35 @ 0.50M	3/07/2017	M17-Jl02348	552701	0.50 M	FILL, silty SAND	
36 @ 0.15M	3/07/2017	M17-Jl02341	552701	0.15 M	FILL, silty SAND	
36 @ 0.50M	3/07/2017	M17-Jl02342	552701	0.50 M	FILL, silty SAND	
37 @ 0.15M	3/07/2017	M17-Jl02332	552701	0.15 M	FILL, silty SAND	
37 @ 0.50M	3/07/2017	M17-Jl02333	552701	0.50 M	FILL, sandy CLAY	
37 @ 2.50M	3/07/2017	M17-Jl02334	552701	2.50 M	FILL, silty SAND	
38 @ 0.15M	3/07/2017	M17-Jl02227	552701	0.15 M	FILL, silty SAND	

Field ID	Category	Pentachlorophenol	tetrachlorophenols	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Atrazine	Dinoseb	2-Methyl-4-chlorophenoxyacetic acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	Mecoprop	Cyanide (Free)	Cyanide Total	Fluoride	Moisture Content (dried @ 103°C)	pH (aqueous extract)	Lead	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Monocylic aromatic hydrocarbons EPAVic
				Herbicides							Inorganics					Lead	MAH				
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		1	1	0.5	0.5	0.2	20	0.5	0.5	0.5	5	5	100	1	0.1	5	0.5	0.5	0.5	0.5	
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health	120		800	1300	400		800	800	800	240					600					
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.												450			1100					
ANZECC 1992	Maintenance of (highly modified) ecosystems.														<6 and >8						
US EPA ECO-SSL	Maintenance of (highly modified) ecosystems.																				
CSQG Residential/Parkland Use	Maintenance of (highly modified) ecosystems.																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.																				
0-2m	Maintenance of (highly modified) ecosystems.																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	Maintenance of (highly modified) ecosystems.																				
0-2m	Maintenance of (highly modified) ecosystems.																				
1 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	35	-	-	-	-	-
1 AT 1.50M		<1	<1	-	-	-	<20	-	-	-	-	<5	260	13	8.2	90	<0.5	<0.5	<0.5	<0.5	<1.1
1 AT 2.0M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	120	-	-	-	-	-
1 AT 3.0M		-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	38	-	-	-	-	-
1 AT 3.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	44	-	-	-	-	-
10 AT 0.15M		<1	<1	-	-	-	<20	-	-	-	-	<5	<100	6.1	7.6	130	<0.5	<0.5	<0.5	<0.5	<1.1
10 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	50	-	-	-	-	-
10 AT 1.0M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	12	-	-	-	-	-
11 AT 0.15M		<1	<1	-	-	-	<20	-	-	-	-	<5	<100	2.9	7.3	160	<0.5	<0.5	<0.5	<0.5	<1.1
11 AT 1.0M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	190	-	-	-	-	-
11 AT 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	16	-	-	-	-	-
2 AT 1.0M		<1	<1	-	-	-	<20	-	-	-	-	<5	110	9.4	8.8	41	<0.5	<0.5	<0.5	<0.5	<1.1
2 AT 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	13	-	-	-	-	-
3 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	4.4	-	55	-	-	-	-	-
4 AT 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	35	-	-	-	-	-
5 AT 1.50M		<1	<1	-	-	-	<20	-	-	-	-	<5	<100	12	7.7	98	<0.5	<0.5	<0.5	<0.5	<1.1
6 AT 1.0M		-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	63	-	-	-	-	-
7 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	77	-	-	-	-	-
7 AT 1.0M		<1	<1	-	-	-	<20	-	-	-	-	<5	<100	5.8	7.9	22	<0.5	<0.5	<0.5	<0.5	<1.1
8 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	18	-	-	-	-	-
8 AT 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	93	-	-	-	-	-
9 AT 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	22	-	-	-	-	-
9 AT 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	47	-	-	-	-	-
12 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	26	-	-	-	-	-
13 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	11	-	-	-	-	-
13 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	38	-	-	-	-	-
14 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	3	-	8.9	-	-	-	-	-
14 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	13	-	-	-	-	-
15 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	29	-	-	-	-	-
15 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	2.4	-	12	-	-	-	-	-
16 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	55	-	-	-	-	-
16 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3.1	-	120	-	-	-	-	-
17 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	16	-	-	-	-	-
17 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	85	-	-	-	-	-
20 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	2.4	-	27	-	-	-	-	-
20 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	7.2	-	-	-	-	-
20 @ 1.50M		<1	<1	-	-	-	<20	-	-	-	-	-	-	2.2	-	-	-	-	-	-	<0.6
21 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	16	-	41	-	-	-	-	-
22 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	26	-	-	-	-	-
22 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3	-	6	-	-	-	-	-
24 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	2.3	-	40	-	-	-	-	-
24 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	46	-	-	-	-	-
24 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	66	-	-	-	-	-
25 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	24	-	-	-	-	-
25 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3.2	-	500	-	-	-	-	-
26 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	27	-	-	-	-	-
26 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	1000	-	-	-	-	-
27 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	3.9	-	60	-	-	-	-	-
28 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6	-	12	-	-	-	-	-
28 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	<5	-	-	-	-	-
29 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	130	-	-	-	-	-
29 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7	-	53	-	-	-	-	-
29 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	9.2	-	78	-	-	-	-	-
30 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	20	-	-	-	-	-
30 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	15	-	27	-	-	-	-	-
30 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	17	-	37	-	-	-	-	-
31 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	43	-	-	-	-	-
31 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	47	-	-	-	-	-
31 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	23	-	120	-	-	-	-	-
32 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	15	-	24	-	-	-	-	-
32 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	10	-	35	-	-	-	-	-
32 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	28	-	-	-	-	-
33 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	31	-	-	-	-	-
33 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	22	-	-	-	-	-
33 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	40	-	-	-	-	-
33 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	13	-	44	-	-	-	-	-
34 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	10	-	74	-	-	-	-	-
35 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	81	-	-	-	-	-
35 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	37	-	-	-	-	-
36 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	9.3	-	-	-	-	-
36 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	34	-	-	-	-	-
37 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	43	-	-	-	-	-
37 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	27	-	-	-	-	-
37 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	14	-	-	-	-	-
38 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	15	-	-	-	-	-

Field ID	Arsenic	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
	Metals															
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	2	10	0.4	1	2	5	5	5	0.1	2	2	2	0.2	5	5
NEPM 2013 Table 1A(1) HILs Rec C Soil	300	90	20000	90	300		300	17000	19000	80		1200	700			30000
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	100					410		220				270	10			730
ANZECC 1992															50	
US EPA ECO-SSL					130						6.6					
CSQG Residential/Parkland Use				10												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																
0-2m																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																
0-2m																
1 AT 0.50M	4.3	-	-	<0.4	-	11	-	<5	-	<0.1	<5	5	<2	0.5	<10	49
1 AT 1.50M	17	-	-	<0.4	<1	34	-	11	-	<0.1	<5	13	<2	0.5	<10	99
1 AT 2.0M	16	-	-	<0.4	-	26	-	12	-	0.1	<5	13	<2	0.4	<10	110
1 AT 3.0M	4.4	-	-	<0.4	-	8.2	-	9	-	<0.1	<5	14	<2	0.8	<10	60
1 AT 3.50M	6.9	-	-	<0.4	-	13	-	6.2	-	<0.1	<5	7.4	<2	0.3	<10	48
10 AT 0.15M	4.5	-	-	<0.4	<1	15	-	11	-	0.1	<5	7.3	<2	<0.2	<10	280
10 AT 0.50M	2.7	-	-	<0.4	-	6.2	-	11	-	<0.1	<5	12	<2	<0.2	<10	60
10 AT 1.0M	4.4	-	-	<0.4	-	6.7	-	10	-	<0.1	<5	29	<2	0.2	<10	25
11 AT 0.15M	3.1	-	-	0.5	<1	11	-	50	-	0.1	<5	5.8	<2	<0.2	<10	330
11 AT 1.0M	5.4	-	-	<0.4	-	27	-	17	-	<0.1	<5	11	<2	0.3	16	290
11 AT 1.50M	<2	-	-	<0.4	-	19	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	47
2 AT 1.0M	11	-	-	<0.4	<1	18	-	6.1	-	0.2	<5	10	<2	<0.2	<10	56
2 AT 1.50M	13	-	-	<0.4	-	20	-	<5	-	<0.1	<5	11	<2	<0.2	<10	19
3 AT 0.50M	6.2	-	-	<0.4	-	12	-	23	-	0.8	<5	12	<2	0.2	<10	59
4 AT 0.15M	6.4	-	-	<0.4	-	14	-	9.6	-	<0.1	<5	9.5	<2	0.2	<10	38
5 AT 1.50M	3.7	-	-	<0.4	<1	8.5	-	32	-	<0.1	<5	9.6	<2	<0.2	12	82
6 AT 1.0M	6.3	-	-	0.5	-	25	-	22	-	3.1	<5	21	<2	0.2	<10	78
7 AT 0.50M	2.1	-	-	<0.4	-	8.6	-	12	-	<0.1	<5	<5	<2	0.3	<10	100
7 AT 1.0M	3.3	-	-	<0.4	<1	12	-	<5	-	<0.1	<5	5.5	<2	<0.2	<10	25
8 AT 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	21
8 AT 1.50M	6.4	-	-	<0.4	-	22	-	8.4	-	<0.1	<5	21	<2	<0.2	<10	38
9 AT 0.15M	6.5	-	-	<0.4	-	21	-	5.6	-	<0.1	<5	10	<2	<0.2	<10	42
9 AT 0.50M	8.4	-	-	<0.4	-	24	-	22	-	<0.1	<5	46	<2	0.3	<10	41
12 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	20
13 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	13
13 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	25
14 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	9
14 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	21
15 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	32
15 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	5	<2	<0.2	<10	17
16 @ 0.15M	<2	-	-	<0.4	-	8.3	-	19	-	<0.1	<5	11	<2	<0.2	<10	54
16 @ 0.50M	<2	-	-	<0.4	-	<5	-	13	-	0.2	<5	<5	<2	<0.2	<10	84
17 @ 0.15M	11	-	-	<0.4	-	25	-	15	-	<0.1	<5	24	<2	<0.2	<10	44
17 @ 0.50M	<2	-	-	<0.4	-	<5	-	360	-	<0.1	<5	<5	<2	<0.2	13	78
20 @ 0.15M	<2	-	-	<0.4	-	<5	-	5.5	-	<0.1	<5	<5	<2	<0.2	<10	35
20 @ 0.50M	15	-	-	<0.4	-	14	-	<5	-	<0.1	<5	9.3	<2	<0.2	<10	14
20 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 0.15M	9.3	-	-	<0.4	-	33	-	28	-	<0.1	<5	38	<2	<0.2	<10	110
22 @ 0.15M	3.2	-	-	<0.4	-	9	-	11	-	<0.1	<5	14	<2	<0.2	<10	35
22 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	7.7
24 @ 0.15M	<2	-	-	<0.4	-	<5	-	5.7	-	<0.1	<5	<5	<2	<0.2	<10	67
24 @ 2.50M	6.9	-	-	<0.4	-	8.9	-	12	-	1.2	<5	17	<2	<0.2	<10	56
24 @ 3.00M	3.4	-	-	<0.4	-	5.6	-	9.6	-	0.2	<5	11	<2	<0.2	<10	64
25 @ 0.15M	16	-	-	<0.4	-	28	-	20	-	<0.1	<5	28	<2	<0.2	<10	59
25 @ 0.50M	<2	-	-	0.7	-	11	-	130	-	<0.1	<5	30	<2	<0.2	270	1300
26 @ 0.15M	<2	-	-	<0.4	-	<5	-	6.2	-	<0.1	<5	<5	<2	<0.2	<10	18
26 @ 0.50M	4.1	-	-	<0.4	-	7.3	-	32	-	<0.1	<5	9.1	<2	<0.2	<10	87
27 @ 0.15M	<2	-	-	<0.4	-	5.6	-	15	-	<0.1	<5	<5	<2	<0.2	<10	83
28 @ 0.15M	<2	-	-	<0.4	-	<5	-	7	-	<0.1	<5	6.1	<2	<0.2	<10	34
28 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	26
29 @ 0.15M	<2	-	-	<0.4	-	5.1	-	9.6	-	<0.1	<5	<5	<2	<0.2	<10	61
29 @ 0.50M	<2	-	-	<0.4	-	<5	-	7.1	-	<0.1	<5	<5	<2	0.3	<10	70
29 @ 2.50M	2.8	-	-	<0.4	-	9.1	-	6.9	-	<0.1	<5	<5	<2	<0.2	<10	64
30 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	33
30 @ 0.50M	<2	-	-	<0.4	-	<5	-	5.2	-	<0.1	<5	<5	<2	<0.2	<10	69
30 @ 3.00M	2.8	-	-	<0.4	-	6.5	-	14	-	<0.1	<5	11	<2	<0.2	<10	77
31 @ 0.15M	<2	-	-	<0.4	-	<5	-	8.3	-	<0.1	<5	<5	<2	<0.2	<10	110
31 @ 0.50M	<2	-	-	<0.4	-	<5	-	6.7	-	<0.1	<5	<5	<2	<0.2	<10	79
31 @ 3.00M	5.1	-	-	0.6	-	9.2	-	26	-	0.2	<5	9.7	<2	1	33	130
32 @ 0.15M	4.4	-	-	<0.4	-	15	-	<5	-	<0.1	<5	7.1	<2	<0.2	<10	27
32 @ 0.50M	17	-	-	<0.4	-	20	-	7.9	-	<0.1	<5	12	<2	<0.2	<10	31
32 @ 3.00M	5.9	-	-	<0.4	-	32	-	16	-	<0.1	<5	18	<2	<0.2	<10	140
33 @ 0.15M	3.1	-	-	<0.4	-	6.1	-	5.8	-	0.1	<5	5.2	<2	<0.2	<10	33
33 @ 0.50M	6.5	-	-	<0.4	-	11	-	14	-	0.1	<5	21	<2	<0.2	25	32
33 @ 1.50M	4.3	-	-	<0.4	-	8.6	-	12	-	<0.1	<5	9.3	<2	<0.2	<10	50
33 @ 3.00M	9.6	-	-	<0.4	-	14	-	15	-	<0.1	<5	18	<2	<0.2	24	53
34 @ 2.50M	16	-	-	<0.4	-	21	-	26	-	<0.1	<5	27	2.6	<0.2	<10	500
35 @ 0.15M	2.8	-	-	<0.4	-	17	-	34	-	<0.1	<5	20	<2	<0.2	<10	150
35 @ 0.50M	<2	-	-	<0.4	-	5.2	-	6.5	-	<0.1	<5	6.2	<2	<0.2	<10	43
36 @ 0.15M	<2	-	-	<0.4	-	8.6	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	7.8
36 @ 0.50M	3.1	-	-	<0.4	-	11	-	10	-	<0.1	<5	6.8	<2	<0.2	<10	37
37 @ 0.15M	<2	-	-	<0.4	-	<5	-	5.1	-	<0.1	<5	<5	<2	<0.2	<10	52
37 @ 0.50M	3.5	-	-	<0.4	-	18	-	5.2	-	<0.1	<5	5.3	<2	<0.2	<10	35
37 @ 2.50M	4.1	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	34
38 @ 0.15M	<2	-	-	<0.4	-	<5	-	6.1	-	0.1	<5	<5	<2	0.2	<10	26

Field ID	TRH >C10-C16	TRH >C16-C34	TRH >C34-C40	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate
	Organic			Organochlorine Pesticides													
	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	100	100	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05		0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil							10		70				400				
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	3800	5300	7400														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																	
ANZECC 1992																	
US EPA ECO-SSL																	
CSQG Residential/Parkland Use																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil		1300	5600														
0-2m																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
0-2m		300	2800														
1 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
1 AT 2.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
10 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
11 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	<50	180	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
2 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	<50	190	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
6 AT 1.0M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
8 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	<50	<100	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Geoaquitards Environmental

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
38 @ 0.50M	3/07/2017	M17-JI02228	552701	0.50 M	FILL, sandy CLAY	
39 @ 0.15M	3/07/2017	M17-JI02239	552701	0.15 M	FILL, silty SAND	
39 @ 0.50M	3/07/2017	M17-JI02240	552701	0.50 M	FILL, silty SAND	
39 @ 1.00M	3/07/2017	M17-JI02241	552701	1.00 M	FILL, silty SAND	
39 @ 2.50M	3/07/2017	M17-JI02243	552701	2.50 M	FILL, silty SAND	
40 @ 0.15M	3/07/2017	M17-JI02253	552701	0.15 M	FILL, silty SAND	
40 @ 1.50M	3/07/2017	M17-JI02254	552701	1.50 M	FILL, silty SAND, Rubbish	
40 @ 3.00M	3/07/2017	M17-JI02255	552701	3.00 M	FILL, silty SAND, Rubbish	
41 @ 0.15M	3/07/2017	M17-JI02354	552701	0.15 M	FILL, silty SAND	
41 @ 0.50M	3/07/2017	M17-JI02355	552701	0.50 M	FILL, silty SAND	
41 @ 1.00M	3/07/2017	M17-JI02356	552701	1.00 M	FILL, silty SAND	
42 @ 0.15M	3/07/2017	M17-JI02360	552701	0.15 M	FILL, silty SAND	
42 @ 2.50M	3/07/2017	M17-JI02361	552701	2.50 M	FILL, silty SAND, Rubbish	
42 @ 3.00M	3/07/2017	M17-JI02362	552701	3.00 M	FILL, silty SAND, Rubbish	
43 @ 1.50M	3/07/2017	M17-JI02319	552701	1.50 M	FILL, silty SAND	
45 @ 0.15M	3/07/2017	M17-JI02264	552701	0.15 M	FILL, silty SAND	
45 @ 0.50M	3/07/2017	M17-JI02265	552701	0.50 M	FILL, silty SAND	
45 @ 3.00M	3/07/2017	M17-JI02266	552701	3.00 M	FILL, silty SAND, Rubbish	
46 @ 0.15M	3/07/2017	M17-JI02223	552701	0.15 M	FILL, silty SAND	
46 @ 1.00M	3/07/2017	M17-JI02224	552701	1.00 M	FILL, sandy CLAY	
46 @ 3.00M	3/07/2017	M17-JI02226	552701	3.00 M	FILL, sandy CLAY, Rubbish	
47 @ 0.15M	3/07/2017	M17-JI02219	552701	0.15 M	FILL, silty SAND	
47 @ 1.50M	3/07/2017	M17-JI02220	552701	1.50 M	FILL, silty SAND	
47 @ 3.00M	3/07/2017	M17-JI02222	552701	3.00 M	FILL, silty SAND	
48 @ 0.15M	3/07/2017	M17-JI02310	552701	0.15 M	FILL, silty SAND	
48 @ 1.50M	3/07/2017	M17-JI02311	552701	1.50 M	FILL, silty SAND	
48 @ 2.00M	3/07/2017	M17-JI02312	552701	2.00 M	FILL, silty SAND	
48 @ 3.00M	3/07/2017	M17-JI02314	552701	3.00 M	FILL, silty SAND	
49 @ 0.15M	3/07/2017	M17-JI02357	552701	0.15 M	FILL, silty SAND	
49 @ 0.50M	3/07/2017	M17-JI02358	552701	0.50 M	FILL, silty SAND	
49 @ 2.00M	3/07/2017	M17-JI02359	552701	2.00 M	FILL, silty SAND, Rubbish	
51 @ 1.50M	3/07/2017	M17-JI02323	552701	1.50 M	FILL, sandy CLAY	
51 @ 2.50M	3/07/2017	M17-JI02324	552701	2.50 M	FILL, clayey SAND, Rubbish	
51 @ 3.00M	3/07/2017	M17-JI02325	552701	3.00 M	FILL, clayey SAND, Rubbish	
52 @ 0.15M	3/07/2017	M17-JI02274	552701	0.15 M	FILL, silty SAND	
52 @ 0.50M	3/07/2017	M17-JI02275	552701	0.50 M	FILL, sandy CLAY	
52 @ 1.00M	3/07/2017	M17-JI02276	552701	1.00 M	FILL, sandy CLAY	
52 @ 2.50M	3/07/2017	M17-JI02277	552701	2.50 M	FILL, sandy CLAY	
52 @ 3.00M	3/07/2017	M17-JI02278	552701	3.00 M	FILL, sandy CLAY	
53 @ 0.15M	3/07/2017	M17-JI02261	552701	0.15 M	FILL, silty SAND	
53 @ 0.50M	3/07/2017	M17-JI02262	552701	0.50 M	FILL, sandy CLAY	
53 @ 1.00M	3/07/2017	M17-JI02263	552701	1.00 M	FILL, sandy CLAY, Rubbish	
54 @ 0.15M	3/07/2017	M17-JI02200	552701	0.15 M	FILL, silty SAND	
54 @ 0.50M	3/07/2017	M17-JI02201	552701	0.50 M	FILL, sandy CLAY	
54 @ 1.00M	3/07/2017	M17-JI02202	552701	1.00 M	FILL, sandy CLAY, Rubbish	
54 @ 2.50M	3/07/2017	M17-JI02203	552701	2.50 M	FILL, sandy CLAY, Rubbish	
54 @ 3.00M	3/07/2017	M17-JI02204	552701	3.00 M	FILL, sandy CLAY, Rubbish	
55 @ 0.50M	3/07/2017	M17-JI02215	552701	0.50 M	FILL, silty SAND	
55 @ 2.50M	3/07/2017	M17-JI02217	552701	2.50 M	FILL, silty SAND, Rubbish	
55 @ 3.00M	3/07/2017	M17-JI02218	552701	3.00 M	FILL, silty SAND, Rubbish	Round 2
56 @ 0.15M	3/07/2017	M17-JI02306	552701	0.15 M	FILL, silty SAND	
56 @ 0.50M	3/07/2017	M17-JI02307	552701	0.50 M	FILL, silty SAND	
56 @ 2.00M	3/07/2017	M17-JI02308	552701	2.00 M	FILL, silty SAND, Rubbish	
56 @ 3.00M	3/07/2017	M17-JI02309	552701	3.00 M	FILL, silty SAND, Rubbish	
57 @ 0.15M	3/07/2017	M17-JI02281	552701	0.15 M	FILL, silty SAND	
57 @ 0.50M	3/07/2017	M17-JI02282	552701	0.50 M	FILL, silty SAND	
57 @ 1.00M	3/07/2017	M17-JI02283	552701	1.00 M	FILL, silty SAND, Rubbish	
57 @ 2.50M	3/07/2017	M17-JI02284	552701	2.50 M	FILL, silty SAND, Rubbish	
58 @ 0.15M	3/07/2017	M17-JI02366	552701	0.15 M	FILL, silty SAND	
58 @ 0.50M	3/07/2017	M17-JI02367	552701	0.50 M	FILL, silty SAND	
58 @ 1.00M	3/07/2017	M17-JI02368	552701	1.00 M	FILL, silty SAND	
59 @ 0.15M	3/07/2017	M17-JI02326	552701	0.15 M	FILL, silty SAND	
59 @ 2.50M	3/07/2017	M17-JI02327	552701	2.50 M	FILL, silty SAND, Rubbish	
60 @ 0.15M	3/07/2017	M17-JI02271	552701	0.15 M	FILL, silty SAND	
60 @ 0.50M	3/07/2017	M17-JI02272	552701	0.50 M	FILL, sandy CLAY	
60 @ 3.00M	3/07/2017	M17-JI02273	552701	3.00 M	FILL, sandy CLAY, Rubbish	
61 @ 0.15M	3/07/2017	M17-JI02258	552701	0.15 M	FILL, silty SAND	
61 @ 0.50M	3/07/2017	M17-JI02259	552701	0.50 M	FILL, silty SAND	
61 @ 3.00M	3/07/2017	M17-JI02260	552701	3.00 M	FILL, silty SAND, Rubbish	
62 @ 0.15M	3/07/2017	M17-JI02197	552701	0.15 M	FILL, silty SAND	
62 @ 0.50M	3/07/2017	M17-JI02198	552701	0.50 M	FILL, silty SAND	
62 @ 1.50M	3/07/2017	M17-JI02199	552701	1.50 M	FILL, silty SAND	
63 @ 0.15M	3/07/2017	M17-JI02209	552701	0.15 M	FILL, silty SAND	
63 @ 0.50M	3/07/2017	M17-JI02210	552701	0.50 M	FILL, silty SAND	
63 @ 1.00M	3/07/2017	M17-JI02211	552701	1.00 M	FILL, silty SAND	

Field ID / Criterion		Pentachlorophenol	tetrachlorophenols	2,4,5-Trichlorophenoxy Acetic Acid (Herbicides)	Hedonal	Atrazine	Dinoseb	2-Methyl-4-chlorophenoxyacetic acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	Mecoprop	Cyanide (Free) (Inorganics)	Cyanide Total	Fluoride	Moisture Content (dried @ 103°C)	pH (aqueous extract)	Lead (Lead)	1,2,4-trimethylbenzene (MAH)	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Monocylic aromatic hydrocarbons EPAVic
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		1	1	0.5	0.5	0.2	20	0.5	0.5	0.5	5	5	100	1	0.1	5	0.5	0.5	0.5	0.5	
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health	120		800	1300	400		800	800	800	240					600					
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay	Human health																				
0-1m	Human health																				
1-2m	Human health																				
2-4m	Human health																				
Csat	Human health																				
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.												450			1100					
ANZECC 1992	Maintenance of (highly modified) ecosystems.														<6 and >8						
US EPA ECO-SSL	Maintenance of (highly modified) ecosystems.																				
CSQG Residential/Parkland Use	Maintenance of (highly modified) ecosystems.																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.																				
0-2m	Maintenance of (highly modified) ecosystems.																				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	Maintenance of (highly modified) ecosystems.																				
0-2m	Maintenance of (highly modified) ecosystems.																				
38 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	18	-	-	-	-	-
39 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	23	-	-	-	-	-
39 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	100	-	-	-	-	-
39 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	85	-	-	-	-	-
39 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	17	-	60	-	-	-	-	-
40 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	110	-	-	-	-	-
40 @ 1.50M		<1	-	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<5	-	-	35	-	550	-	-	-	-	-
40 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	22	-	39	-	-	-	-	-
41 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	9.2	-	71	-	-	-	-	-
41 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	27	-	-	-	-	-
41 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	36	-	-	-	-	-
42 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	40	-	-	-	-	-
42 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	15	-	<5	-	-	-	-	-
42 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	15	-	<5	-	-	-	-	-
43 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	48	-	-	-	-	-
45 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6	-	7.8	-	-	-	-	-
45 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	7.1	-	-	-	-	-
45 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	16	-	51	-	-	-	-	-
46 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	48	-	-	-	-	-
46 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	14	-	-	-	-	-
46 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	39	-	-	-	-	-
47 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	45	-	-	-	-	-
47 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	78	-	-	-	-	2.2
47 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	20	-	49	-	-	-	-	-
48 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	47	-	-	-	-	-
48 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	16	-	93	-	-	-	-	-
48 @ 2.00M		-	-	-	-	-	-	-	-	-	-	-	-	16	-	83	-	-	-	-	-
48 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	30	-	7200	-	-	-	-	-
49 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	170	-	-	-	-	-
49 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	210	-	-	-	-	-
49 @ 2.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	110	-	-	-	-	-
51 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	53	-	-	-	-	-
51 @ 2.50M		<1	<1	-	-	-	<20	-	-	-	-	<5	<100	4.1	7.3	150	<0.5	<0.5	<0.5	<0.5	<1.1
51 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	4.2	-	35	-	-	-	-	-
52 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	51	-	-	-	-	-
52 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	23	-	-	-	-	-
52 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	14	-	34	-	-	-	-	-
52 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	45	-	-	-	-	-
52 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	43	-	-	-	-	-
53 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	34	-	-	-	-	-
53 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	97	-	-	-	-	-
53 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	22	-	74	-	-	-	-	-
54 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	32	-	-	-	-	-
54 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	38	-	-	-	-	-
54 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	10	-	68	-	-	-	-	-
54 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	22	-	360	-	-	-	-	<0.6
54 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	120	-	-	-	-	-
55 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	52	-	-	-	-	-
55 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	55	-	-	-	-	-
55 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	40	-	-	-	-	-
56 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	28	-	-	-	-	-
56 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	22	-	-	-	-	-
56 @ 2.00M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	77	-	-	-	-	-
56 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	28	-	98	-	-	-	-	-
57 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	44	-	-	-	-	-
57 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	160	-	-	-	-	-
57 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	150	-	-	-	-	-
57 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	11	-	400	-	-	-	-	-
58 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7	-	39	-	-	-	-	-
58 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	77	-	-	-	-	-
58 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	3.2	-	53	-	-	-	-	-
59 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	63	-	-	-	-	-
59 @ 2.50M		-	-	-	-	-	-	-	-	-	-	-	-	4	-	42	-	-	-	-	-
60 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	40	-	-	-	-	-
60 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	8.5	-	-	-	-	-
60 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	29	-	-	-	-	-
61 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	13	-	38	-	-	-	-	-
61 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	70	-	-	-	-	-
61 @ 3.00M		-	-	-	-	-	-	-	-	-	-	-	-	12	-	33	-	-	-	-	-
62 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	57	-	-	-	-	-
62 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	29	-	-	-	-	-
62 @ 1.50M		-	-	-	-	-	-	-	-	-	-	-	-	14	-	57	-	-	-	-	<0.6
63 @ 0.15M		-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	47	-	-	-	-	-
63 @ 0.50M		-	-	-	-	-	-	-	-	-	-	-	-	8	-	130	-	-	-	-	-
63 @ 1.00M		-	-	-	-	-	-	-	-	-	-	-	-	10	-	140	-	-	-	-	-

Field ID / Criterion	Arsenic (Metals)	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	2	10	0.4	1	2	5	5	5	0.1	2	2	2	0.2	5	5
NEPM 2013 Table 1A(1) HILs Rec C Soil	300	90	20000	90	300		300	17000	19000	80		1200	700			30000
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	100					410		220				270	10			730
ANZECC 1992															50	
US EPA ECO-SSL					130						6.6					
CSQG Residential/Parkland Use				10												
38 @ 0.50M	7.7	-	-	<0.4	-	15	-	6.1	-	<0.1	<5	6.9	<2	<0.2	<10	14
39 @ 0.15M	2.1	-	-	0.8	-	8.1	-	7.7	-	<0.1	<5	5.9	<2	<0.2	<10	65
39 @ 0.50M	5	-	-	0.5	-	9.3	-	21	-	<0.1	<5	12	<2	<0.2	<10	200
39 @ 1.00M	7.9	-	-	<0.4	-	26	-	17	-	<0.1	<5	18	<2	<0.2	14	110
39 @ 2.50M	7.1	-	-	<0.4	-	19	-	55	-	0.1	<5	14	<2	<0.2	21	230
40 @ 0.15M	3.5	-	-	<0.4	-	7.9	-	22	-	<0.1	<5	14	<2	<0.2	<10	61
40 @ 1.50M	5.8	<2	<10	0.5	<1	14	<5	39	100	1	-	9.2	<2	-	-	610
40 @ 3.00M	3.6	-	-	<0.4	-	7.6	-	9.1	-	<0.1	<5	5.7	<2	<0.2	51	59
41 @ 0.15M	<2	-	-	<0.4	-	18	-	6.1	-	<0.1	<5	<5	<2	<0.2	<10	66
41 @ 0.50M	6.1	-	-	<0.4	-	15	-	10	-	<0.1	<5	16	<2	<0.2	<10	30
41 @ 1.00M	4.9	-	-	<0.4	-	18	-	10	-	<0.1	<5	22	<2	<0.2	<10	42
42 @ 0.15M	4.1	-	-	<0.4	-	9.7	-	13	-	<0.1	<5	9.2	<2	<0.2	<10	60
42 @ 2.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	17
42 @ 3.00M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5
43 @ 1.50M	3.7	-	-	<0.4	-	5.9	-	20	-	<0.1	<5	5.7	<2	<0.2	<10	69
45 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	13
45 @ 0.50M	2	-	-	<0.4	-	11	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	11
45 @ 3.00M	5.7	-	-	<0.4	-	24	-	14	-	0.1	<5	10	<2	<0.2	24	110
46 @ 0.15M	4.3	-	-	<0.4	-	9.3	-	19	-	<0.1	<5	9.3	<2	<0.2	<10	71
46 @ 1.00M	2.8	-	-	<0.4	-	12	-	14	-	<0.1	<5	9.2	<2	<0.2	500	41
46 @ 3.00M	4.7	-	-	<0.4	-	10	-	14	-	<0.1	<5	15	<2	<0.2	<10	500
47 @ 0.15M	8.9	-	-	<0.4	-	15	-	14	-	<0.1	<5	14	<2	<0.2	<10	70
47 @ 1.50M	4.6	-	-	0.5	-	30	-	20	-	1.6	-	17	-	-	-	120
47 @ 3.00M	10	-	-	1	-	35	-	72	-	<0.1	<5	17	<2	7.9	<10	360
48 @ 0.15M	6.6	-	-	<0.4	-	12	-	11	-	<0.1	<5	10	<2	<0.2	<10	72
48 @ 1.50M	3.8	-	-	<0.4	-	10	-	28	-	<0.1	<5	24	<2	<0.2	12	130
48 @ 2.00M	6.8	-	-	1.1	-	16	-	39	-	<0.1	<5	11	2.3	<0.2	99	170
48 @ 3.00M	110	-	-	14	-	110	-	170,000	-	0.2	<100	300	<20	<50	790	120,000
49 @ 0.15M	34	-	-	<0.4	-	52	-	37	-	<0.1	<5	13	<2	<0.2	<10	6100
49 @ 0.50M	27	-	-	<0.4	-	27	-	26	-	<0.1	<5	15	<2	<0.2	<10	960
49 @ 2.00M	13	-	-	<0.4	-	31	-	73	-	<0.1	<5	21	<2	<0.2	39	590
51 @ 1.50M	9.2	-	-	<0.4	-	30	-	8.8	-	<0.1	<5	14	<2	<0.2	<10	110
51 @ 2.50M	6.9	-	-	<0.4	<1	14	-	9.2	-	<0.1	<5	12	<2	<0.2	<10	40
51 @ 3.00M	12	-	-	<0.4	-	18	-	17	-	<0.1	<5	15	<2	<0.2	<10	80
52 @ 0.15M	3.5	-	-	<0.4	-	9.9	-	9.5	-	<0.1	<5	5.6	<2	<0.2	<10	59
52 @ 0.50M	2.3	-	-	<0.4	-	6.9	-	6.7	-	<0.1	<5	<5	<2	0.3	<10	34
52 @ 1.00M	33	-	-	<0.4	-	28	-	9	-	<0.1	<5	8.5	<2	<0.2	<10	48
52 @ 2.50M	7.6	-	-	<0.4	-	13	-	11	-	<0.1	<5	11	<2	<0.2	<10	42
52 @ 3.00M	4.7	-	-	<0.4	-	11	-	9.9	-	<0.1	<5	11	<2	<0.2	<10	42
53 @ 0.15M	3.9	-	-	<0.4	-	6.6	-	11	-	<0.1	<5	7.8	<2	<0.2	<10	49
53 @ 0.50M	4.7	-	-	<0.4	-	13	-	18	-	<0.1	<5	19	<2	<0.2	<10	55
53 @ 1.00M	4.7	-	-	1.9	-	13	-	48	-	<0.1	<5	12	<2	23	11	220
54 @ 0.15M	<2	-	-	<0.4	-	<5	-	7.8	-	0.1	<5	<5	<2	<0.2	<10	37
54 @ 0.50M	4.7	-	-	<0.4	-	14	-	11	-	<0.1	<5	20	<2	<0.2	<10	61
54 @ 1.00M	6.6	-	-	0.6	-	19	-	27	-	2.6	<5	15	<2	0.8	13	110
54 @ 2.50M	4.8	-	-	1.7	-	29	-	20	-	1	-	10	-	-	-	280
54 @ 3.00M	4.9	-	-	0.7	-	13	-	21	-	0.3	<5	15	<2	<0.2	140	200
55 @ 0.50M	6.5	-	-	<0.4	-	10	-	16	-	<0.1	<5	14	<2	<0.2	<10	120
55 @ 2.50M	10	-	-	<0.4	-	28	-	30	-	0.2	<5	22	<2	<0.2	120	160
55 @ 3.00M	5.8	-	-	<0.4	-	10	-	14	-	0.1	<5	12	<2	<0.2	29	180
56 @ 0.15M	4.3	-	-	<0.4	-	16	-	9	-	<0.1	<5	5.9	<2	<0.2	<10	43
56 @ 0.50M	2.3	-	-	<0.4	-	11	-	15	-	<0.1	<5	34	<2	<0.2	<10	44
56 @ 2.00M	4.4	-	-	<0.4	-	8.7	-	11	-	0.1	<5	11	<2	<0.2	<10	100
56 @ 3.00M	5.8	-	-	<0.4	-	22	-	26	-	0.3	<5	18	3.5	<0.2	150	420
57 @ 0.15M	2.3	-	-	<0.4	-	5.4	-	9.5	-	<0.1	<5	<5	<2	<0.2	<10	63
57 @ 0.50M	22	-	-	<0.4	-	31	-	32	-	<0.1	<5	29	<2	<0.2	39	150
57 @ 1.00M	23	-	-	<0.4	-	27	-	49	-	0.1	<5	25	<2	1.8	340	140
57 @ 2.50M	6.2	-	-	<0.4	-	9.4	-	60	-	<0.1	<5	8.6	<2	<0.2	<10	170
58 @ 0.15M	6.2	-	-	<0.4	-	17	-	18	-	<0.1	<5	9.1	<2	<0.2	<10	88
58 @ 0.50M	3.7	-	-	<0.4	-	8.3	-	20	-	<0.1	<5	5.9	<2	<0.2	<10	85
58 @ 1.00M	8.4	-	-	0.8	-	20	-	23	-	<0.1	<5	18	<2	<0.2	<10	99
59 @ 0.15M	110	-	-	<0.4	-	30	-	12	-	0.1	<5	22	<2	<0.2	<10	100
59 @ 2.50M	4.5	-	-	<0.4	-	6.9	-	26	-	<0.1	<5	8.4	<2	<0.2	11	94
60 @ 0.15M	9	-	-	<0.4	-	12	-	12	-	<0.1	<5	9.4	<2	<0.2	<10	86
60 @ 0.50M	2.5	-	-	<0.4	-	9.8	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	7.6
60 @ 3.00M	5.7	-	-	<0.4	-	8.8	-	9.5	-	<0.1	<5	8.1	<2	<0.2	<10	41
61 @ 0.15M	4.9	-	-	<0.4	-	30	-	<5	-	<0.1	<5	11	<2	<0.2	<10	16
61 @ 0.50M	7.4	-	-	<0.4	-	11	-	17	-	<0.1	<5	10	<2	0.2	<10	75
61 @ 3.00M	5	-	-	0.7	-	11	-	24	-	4.2	<5	16	<2	<0.2	<10	97
62 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	9.6
62 @ 0.50M	3.9	-	-	<0.4	-	10	-	12	-	<0.1	<5	19	<2	<0.2	<10	49
62 @ 1.50M	12	-	-	<0.4	-	22	-	12	-	0.2	-	13	-	-	-	46
63 @ 0.15M	5.5	-	-	<0.4	-	8.4	-	9.3	-	<0.1	<5	8	<2	<0.2	<10	65
63 @ 0.50M	6.5	-	-	<0.4	-	16	-	72	-	0.1	<5	23	<2	<0.2	<10	120
63 @ 1.00M	5.2	-	-	<0.4	-	13	-	29	-	0.1	<5	12	<2	<0.2	17	200

Field ID / Criterion	TRH >C10-C16 (Organic)	TRH >C16-C34	TRH >C34-C40	4,4-DDE (Organochlorine Pesticides)	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate
	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	100	100	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05		0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil							10		70				400				
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	3800	5300	7400														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil		1300	5600														
0-2m (Coarse Soil)		300	2800														
38 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 1.50M	-	-	-	<0.05	-	<0.05	<0.1	-	<0.1	-	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
40 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 1.50M	98	840	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 2.50M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
51 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 2.50M	<50	970	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 1.50M	<50	370	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Geoaquitards Environmental

Criteria	Purpose
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	Human health
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand (0-1m, 1-2m, 2-4m, Csat)	Human health
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt (0-1m, 1-2m, 2-4m, Csat)	Human health
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay (0-1m, 1-2m, 2-4m, Csat)	Human health
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.
ANZECC 1992	Maintenance of (highly modified) ecosystems.
US EPA ECO-SSL	Maintenance of (highly modified) ecosystems.
CSQG Residential/Parkland Use	Maintenance of (highly modified) ecosystems.
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil (0-2m)	Maintenance of (highly modified) ecosystems.
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil (0-2m)	Maintenance of (highly modified) ecosystems.

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
63 @ 1.50M	3/07/2017	M17-JI02212	552701	1.50 M	FILL, silty SAND	
63 @ 3.00M	3/07/2017	M17-JI02214	552701	3.00 M	FILL, silty SAND, Rubbish	
64 @ 0.50M	3/07/2017	M17-JI02303	552701	0.50 M	FILL, silty SAND	
64 @ 1.00M	3/07/2017	M17-JI02304	552701	1.00 M	FILL, silty SAND	
64 @ 2.50M	3/07/2017	M17-JI02305	552701	2.50 M	FILL, silty SAND, Rubbish	
65 @ 0.15M	3/07/2017	M17-JI02285	552701	0.15 M	FILL, silty SAND	
65 @ 1.00M	3/07/2017	M17-JI02286	552701	1.00 M	FILL, silty SAND, Rubbish	
65 @ 2.00M	3/07/2017	M17-JI02287	552701	2.00 M	FILL, silty SAND, Rubbish	
65 @ 2.50M	3/07/2017	M17-JI02288	552701	2.50 M	FILL, silty SAND, Rubbish	
65 @ 3.00M	3/07/2017	M17-JI02289	552701	3.00 M	FILL, silty SAND, Rubbish	
66 @ 1.50M	3/07/2017	M17-JI02370	552701	1.50 M	FILL, silty SAND	
67 @ 0.15M	3/07/2017	M17-JI02268	552701	0.15 M	FILL, silty SAND	
67 @ 0.50M	3/07/2017	M17-JI02269	552701	0.50 M	FILL, silty SAND	
68 @ 0.15M	3/07/2017	M17-JI02193	552701	0.15 M	FILL, silty SAND	
68 @ 0.50M	3/07/2017	M17-JI02194	552701	0.50 M	FILL, sandy CLAY	
68 @ 1.50M	3/07/2017	M17-JI02195	552701	1.50 M	FILL, sandy CLAY	
68 @ 2.00M	3/07/2017	M17-JI02196	552701	2.00 M	FILL, sandy CLAY, Rubbish	
69 @ 0.50M	3/07/2017	M17-JI02297	552701	0.50 M	FILL, silty SAND	
69 @ 1.00M	3/07/2017	M17-JI02298	552701	1.00 M	FILL, silty SAND	
69 @ 2.00M	3/07/2017	M17-JI02299	552701	2.00 M	FILL, silty SAND, Rubbish	
69 @ 2.50M	3/07/2017	M17-JI02300	552701	2.50 M	FILL, silty SAND, Rubbish	
69 @ 3.00M	3/07/2017	M17-JI02301	552701	3.00 M	FILL, silty SAND, Rubbish	
70 @ 0.15M	3/07/2017	M17-JI02328	552701	0.15 M	FILL, silty SAND	
70 @ 0.50M	3/07/2017	M17-JI02329	552701	0.50 M	FILL, silty SAND	
70 @ 1.50M	3/07/2017	M17-JI02330	552701	1.50 M	FILL, silty SAND	
70 @ 3.00M	3/07/2017	M17-JI02331	552701	3.00 M	FILL, silty SAND, Rubbish	
71 @ 2.50M	3/07/2017	M17-JI02377	552701	2.50 M	FILL, silty SAND	
72 @ 0.15M	3/07/2017	M17-JI02256	552701	0.15 M	FILL, silty SAND	
72 @ 0.50M	3/07/2017	M17-JI02257	552701	0.50 M	FILL, silty SAND	
73 @ 0.50M	3/07/2017	M17-JI02189	552701	0.50 M	FILL, sandy CLAY	
73 @ 1.00M	3/07/2017	M17-JI02190	552701	1.00 M	FILL, sandy CLAY	
73 @ 1.50M	3/07/2017	M17-JI02191	552701	1.50 M	FILL, sandy CLAY	
73 @ 3.00M	3/07/2017	M17-JI02192	552701	3.00 M	FILL, sandy CLAY	
74 @ 0.15M	3/07/2017	M17-JI02206	552701	0.15 M	FILL, silty SAND	
74 @ 0.50M	3/07/2017	M17-JI02207	552701	0.50 M	FILL, sandy CLAY	
74 @ 3.00M	3/07/2017	M17-JI02208	552701	3.00 M	FILL, sandy CLAY	
75 @ 0.15M	3/07/2017	M17-JI02291	552701	0.15 M	FILL, silty SAND	
75 @ 0.50M	3/07/2017	M17-JI02292	552701	0.50 M	FILL, sandy CLAY	
75 @ 1.50M	3/07/2017	M17-JI02293	552701	1.50 M	FILL, silty SAND, Rubbish	
75 @ 2.00M	3/07/2017	M17-JI02294	552701	2.00 M	FILL, silty SAND, Rubbish	
75 @ 2.50M	3/07/2017	M17-JI02295	552701	2.50 M	FILL, silty SAND, Rubbish	
76 @ 2.50M	3/07/2017	M17-JI02290	552701	2.50 M	FILL, silty SAND	
77 @ 3.00M	3/07/2017	M17-JI02403	552701	3.00 M	FILL, silty SAND, Rubbish	
78 @ 0.15M	3/07/2017	M17-JI02375	552701	0.15 M	FILL, silty SAND	
78 @ 0.50M	3/07/2017	M17-JI02376	552701	0.50 M	FILL, silty SAND	
79 @ 1.00M	3/07/2017	M17-JI02373	552701	1.00 M	FILL, silty SAND	
79 @ 3.00M	3/07/2017	M17-JI02374	552701	3.00 M	FILL, silty SAND, Rubbish	
80 @ 0.15M	3/07/2017	M17-JI02371	552701	0.15 M	FILL, silty SAND	
80 @ 0.50M	3/07/2017	M17-JI02372	552701	0.50 M	FILL, silty SAND	
81 @ 0.15M	3/07/2017	M17-JI02398	552701	0.15 M	FILL, silty SAND	
82 @ 0.15M	3/07/2017	M17-JI02394	552701	0.15 M	FILL, silty SAND	
82 @ 0.50M	3/07/2017	M17-JI02395	552701	0.50 M	FILL, silty SAND	
82 @ 2.00M	3/07/2017	M17-JI02396	552701	2.00 M	FILL, silty SAND, Rubbish	
82 @ 3.00M	3/07/2017	M17-JI02397	552701	3.00 M	FILL, silty SAND, Rubbish	
83 @ 0.15M	3/07/2017	M17-JI02391	552701	0.15 M	FILL, silty SAND	
83 @ 0.50M	3/07/2017	M17-JI02392	552701	0.50 M	FILL, silty SAND	
83 @ 1.00M	3/07/2017	M17-JI02393	552701	1.00 M	FILL, silty SAND	
84 @ 0.15M	3/07/2017	M17-JI02399	552701	0.15 M	FILL, silty SAND	
84 @ 0.50M	3/07/2017	M17-JI02400	552701	0.50 M	FILL, silty SAND	
85 @ 0.15M	3/07/2017	M17-JI02401	552701	0.15 M	FILL, silty SAND	
85 @ 0.50M	3/07/2017	M17-JI02402	552701	0.50 M	FILL, silty SAND	
DUPLICATE 1	3/07/2017	M17-JI02205	552701	1.00 M	FILL, sandy CLAY, Rubbish	
DUPLICATE 2	3/07/2017	M17-JI02238	552701	0.50 M	FILL, silty SAND	
DUPLICATE 4	3/07/2017	M17-JI02267	552701	0.50 M	FILL, sandy CLAY	
DUPLICATE 5	3/07/2017	M17-JI02315	552701	2.00 M	FILL, silty SAND, Rubbish	
DUPLICATE 6	3/07/2017	M17-JI02316	552701	1.00 M	FILL, silty SAND, Rubbish	
DUPLICATE 7	3/07/2017	M17-JI02317	552701	1.50 M	FILL, sandy CLAY	
DUPLICATE 8	3/07/2017	M17-JI02346	552701	0.50 M	FILL, silty SAND	
SPLIT 1	3/07/2017	EM1708657001	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish	
SPLIT 2	3/07/2017	EM1708657002	EM1708657	0.50 M	FILL, silty SAND	
SPLIT 3	3/07/2017	EM1708657003	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish	
SPLIT 4	3/07/2017	EM1708657004	EM1708657	0.50 M	FILL, sandy CLAY	
SPLIT 5	3/07/2017	EM1708657005	EM1708657	2.00 M	FILL, silty SAND, Rubbish	
SPLIT 6	3/07/2017	EM1708657006	EM1708657	1.00 M	FILL, silty SAND, Rubbish	
SPLIT 7	3/07/2017	EM1708657007	EM1708657	1.50 M	FILL, sandy CLAY	

Field ID	Pentachlorophenol	tetrachlorophenols	Herbicides: 2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Atrazine	Dinoseb	2-Methyl-4-chlorophenoxyacetic acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	Mecoprop	Inorganics: Cyanide (Free)	Cyanide Total	Fluoride	Moisture Content (dried @ 103°C)	pH (aqueous extract)	Lead: Lead	MAH: 1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Monocylic aromatic hydrocarbons EPAVic
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	1	1	0.5	0.5	0.2	20	0.5	0.5	0.5	5	5	100	1	0.1	5	0.5	0.5	0.5	0.5	
NEPM 2013 Table 1A(1) HILs Rec C Soil	120		800	1300	400		800	800	800	240					600					
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space												450			1100					
ANZECC 1992														<6 and >8						
63 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-	53	-	-	-	-	<0.6
63 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	65	-	-	-	-	-
64 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	29	-	-	-	-	-
64 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	7	-	34	-	-	-	-	-
64 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	15	-	45	-	-	-	-	-
65 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	8.8	-	73	-	-	-	-	-
65 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	10	-	32	-	-	-	-	-
65 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	24	-	100	-	-	-	-	-
65 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	17	-	48	-	-	-	-	-
65 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	20	-	57	-	-	-	-	-
66 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	13	-	36	-	-	-	-	-
67 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	8.2	-	-	-	-	-
67 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	5.5	-	-	-	-	-
68 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	11	-	-	-	-	-
68 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	18	-	-	-	-	-
68 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	35	-	-	-	-	<0.6
68 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	36	-	-	-	-	-
69 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	9.9	-	-	-	-	-
69 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	49	-	-	-	-	-
69 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	46	-	-	-	-	-
69 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	10	-	43	-	-	-	-	-
69 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	10	-	41	-	-	-	-	-
70 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	6.2	-	47	-	-	-	-	-
70 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	12	-	49	-	-	-	-	-
70 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	34	-	-	-	-	-
70 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	76	-	-	-	-	-
71 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	28	-	-	-	-	-
72 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	4.4	-	66	-	-	-	-	-
72 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	52	-	-	-	-	-
73 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	42	-	-	-	-	-
73 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	15	-	32	-	-	-	-	-
73 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	16	-	34	-	-	-	-	<0.6
73 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	20	-	-	-	-	-
74 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	34	-	-	-	-	-
74 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	16	-	-	-	-	-
74 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	11	-	41	-	-	-	-	-
75 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	39	-	-	-	-	-
75 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	15	-	40	-	-	-	-	-
75 @ 1.50M	<1	-	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<5	-	-	7.8	-	47	-	-	-	-	-
75 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	14	-	160	-	-	-	-	-
75 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	28	-	-	-	-	-
76 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	52	-	-	-	-	-
77 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	380	-	-	-	-	-
78 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	39	-	-	-	-	-
78 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	10	-	19	-	-	-	-	-
79 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	56	-	-	-	-	-
79 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	5.4	-	-	-	-	-
80 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	4	-	85	-	-	-	-	-
80 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	44	-	-	-	-	-
81 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	33	-	-	-	-	-
82 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	92	-	-	-	-	-
82 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	5.3	-	84	-	-	-	-	-
82 @ 2.00M	<1	<1	-	-	-	<20	-	-	-	-	<5	<100	5.7	8.2	35	<0.5	<0.5	<0.5	<0.5	<1.1
82 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	74	-	-	-	-	-
83 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	41	-	-	-	-	-
83 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	4.6	-	43	-	-	-	-	-
83 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	65	-	-	-	-	-
84 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	14	-	-	-	-	-
84 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	4.4	-	22	-	-	-	-	-
85 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	43	-	-	-	-	-
85 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	25	-	-	-	-	-
DUPLICATE 1	-	-	-	-	-	-	-	-	-	-	-	-	11	-	72	-	-	-	-	-
DUPLICATE 2	-	-	-	-	-	-	-	-	-	-	-	-	16	-	8	-	-	-	-	-
DUPLICATE 4	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	13	-	-	-	-	-
DUPLICATE 5	-	-	-	-	-	-	-	-	-	-	-	-	11	-	43	-	-	-	-	-
DUPLICATE 6	-	-	-	-	-	-	-	-	-	-	-	-	12	-	99	-	-	-	-	-
DUPLICATE 7	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	93	-	-	-	-	-
DUPLICATE 8	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	50	-	-	-	-	-
SPLIT 1	-	-	-	-	-	-	-	-	-	-	-	-	16.6	-	58	-	-	-	-	-
SPLIT 2	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	11	-	-	-	-	-
SPLIT 3	-	-	-	-	-	-	-	-	-	-	-	-	29.1	-	90	-	-	-	-	-
SPLIT 4	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	18	-	-	-	-	-
SPLIT 5	-	-	-	-	-	-	-	-	-	-	-	-	10.8	-	24	-	-	-	-	-
SPLIT 6	-	-	-	-	-	-	-	-	-	-	-	-	9	-	65	-	-	-	-	-
SPLIT 7	-	-	-	-	-	-	-	-	-	-	-	-	11	-	57	-	-	-	-	-

Field ID	Metals: Arsenic	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	2	10	0.4	1	2	5	5	5	0.1	2	2	2	0.2	5	5
NEPM 2013 Table 1A(1) HILs Rec C Soil	300	90	20000	90	300		300	17000	19000	80		1200	700			30000
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	100					410		220				270	10			730
ANZECC 1992															50	
US EPA ECO-SSL					130						6.6					
CSQG Residential/Parkland Use				10												
63 @ 1.50M	4	-	-	<0.4	-	7.6	-	13	-	<0.1	-	10	-	-	-	64
63 @ 3.00M	7.5	-	-	<0.4	-	21	-	21	-	0.4	<5	14	<2	<0.2	<10	95
64 @ 0.50M	2.7	-	-	<0.4	-	6.4	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	36
64 @ 1.00M	3.2	-	-	<0.4	-	6.9	-	9.2	-	0.1	<5	6	<2	<0.2	<10	50
64 @ 2.50M	2.8	-	-	<0.4	-	18	-	15	-	0.4	<5	7.1	<2	<0.2	16	66
65 @ 0.15M	4.5	-	-	<0.4	-	9.5	-	47	-	<0.1	<5	7.4	<2	<0.2	<10	170
65 @ 1.00M	3.9	-	-	<0.4	-	6.3	-	14	-	<0.1	<5	17	<2	<0.2	73	58
65 @ 2.00M	3.9	-	-	<0.4	-	8.3	-	38	-	6.6	<5	<5	<2	<0.2	<10	130
65 @ 2.50M	5.8	-	-	<0.4	-	14	-	30	-	0.2	<5	17	<2	<0.2	25	120
65 @ 3.00M	5	-	-	<0.4	-	12	-	32	-	1.9	<5	9.2	2.2	0.2	35	120
66 @ 1.50M	19	-	-	<0.4	-	27	-	7	-	<0.1	<5	9.2	<2	<0.2	<10	63
67 @ 0.15M	3.3	-	-	<0.4	-	11	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	16
67 @ 0.50M	3.9	-	-	<0.4	-	13	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5
68 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	18
68 @ 0.50M	4.7	-	-	<0.4	-	17	-	10	-	<0.1	<5	23	<2	<0.2	<10	24
68 @ 1.50M	5.1	-	-	<0.4	-	9.2	-	28	-	0.1	-	6.9	-	-	-	62
68 @ 2.00M	5.2	-	-	<0.4	-	9.6	-	26	-	0.1	<5	11	<2	<0.2	<10	220
69 @ 0.50M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	20
69 @ 1.00M	5.9	-	-	<0.4	-	19	-	15	-	<0.1	<5	13	<2	<0.2	<10	88
69 @ 2.00M	7	-	-	<0.4	-	14	-	15	-	0.1	<5	14	<2	<0.2	14	79
69 @ 2.50M	12	-	-	<0.4	-	15	-	11	-	<0.1	<5	13	<2	<0.2	34	120
69 @ 3.00M	7.4	-	-	<0.4	-	16	-	15	-	<0.1	<5	14	2.1	<0.2	44	110
70 @ 0.15M	20	-	-	<0.4	-	24	-	11	-	0.2	<5	13	<2	<0.2	<10	66
70 @ 0.50M	20	-	-	<0.4	-	41	-	13	-	<0.1	<5	16	<2	<0.2	<10	71
70 @ 1.50M	16	-	-	<0.4	-	11	-	6.3	-	<0.1	<5	6.2	<2	<0.2	16	380
70 @ 3.00M	13	-	-	0.5	-	15	-	55	-	<0.1	<5	9.5	<2	<0.2	<10	170
71 @ 2.50M	6.8	-	-	<0.4	-	12	-	26	-	1.5	<5	27	<2	<0.2	<10	71
72 @ 0.15M	5.9	-	-	0.5	-	17	-	26	-	<0.1	<5	28	<2	<0.2	<10	93
72 @ 0.50M	4.1	-	-	<0.4	-	12	-	16	-	<0.1	<5	25	<2	<0.2	<10	110
73 @ 0.50M	11	-	-	<0.4	-	24	-	23	-	<0.1	<5	20	<2	<0.2	<10	87
73 @ 1.00M	9.7	-	-	<0.4	-	28	-	11	-	0.1	<5	14	<2	<0.2	<10	45
73 @ 1.50M	14	-	-	<0.4	-	34	-	12	-	<0.1	-	13	-	-	-	59
73 @ 3.00M	3.9	-	-	<0.4	-	24	-	19	-	<0.1	<5	32	<2	<0.2	<10	36
74 @ 0.15M	4.7	-	-	<0.4	-	11	-	17	-	5.3	<5	13	<2	<0.2	<10	62
74 @ 0.50M	4.2	-	-	<0.4	-	15	-	6.8	-	0.2	<5	8.4	<2	<0.2	<10	29
74 @ 3.00M	10	-	-	<0.4	-	16	-	15	-	0.2	<5	11	<2	<0.2	<10	58
75 @ 0.15M	5.8	-	-	<0.4	-	12	-	8.1	-	0.5	<5	6.7	<2	<0.2	<10	65
75 @ 0.50M	15	-	-	<0.4	-	31	-	5.2	-	<0.1	<5	13	<2	<0.2	<10	62
75 @ 1.50M	12	<2	<10	<0.4	<1	14	<5	11	42	0.1	-	8.1	<2	-	-	51
75 @ 2.00M	7.8	-	-	<0.4	-	11	-	11	-	<0.1	<5	6.8	<2	<0.2	16	150
75 @ 2.50M	2.5	-	-	<0.4	-	<5	-	14	-	<0.1	<5	<5	<2	<0.2	13	49
76 @ 2.50M	15	-	-	<0.4	-	16	-	14	-	<0.1	<5	16	<2	<0.2	<10	91
77 @ 3.00M	7.9	-	-	2.8	-	34	-	100	-	0.2	<5	17	<2	<0.2	28	1900
78 @ 0.15M	6.4	-	-	<0.4	-	10	-	47	-	5.7	<5	5.8	<2	<0.2	<10	59
78 @ 0.50M	7.9	-	-	<0.4	-	27	-	15	-	1.6	<5	9.2	<2	<0.2	<10	27
79 @ 1.00M	8.1	-	-	<0.4	-	16	-	11	-	<0.1	<5	14	<2	<0.2	<10	97
79 @ 3.00M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	18
80 @ 0.15M	2.5	-	-	<0.4	-	<5	-	10	-	<0.1	<5	5.2	<2	<0.2	<10	87
80 @ 0.50M	4.3	-	-	<0.4	-	9.2	-	24	-	<0.1	<5	6	<2	<0.2	<10	84
81 @ 0.15M	3.9	-	-	<0.4	-	7.2	-	9.8	-	<0.1	<5	<5	<2	<0.2	<10	69
82 @ 0.15M	4.3	-	-	<0.4	-	10	-	17	-	<0.1	<5	7.1	<2	<0.2	<10	150
82 @ 0.50M	3.6	-	-	<0.4	-	9.7	-	16	-	<0.1	<5	11	<2	<0.2	<10	200
82 @ 2.00M	8.7	-	-	<0.4	<1	12	-	8.6	-	<0.1	<5	9.9	<2	<0.2	<10	51
82 @ 3.00M	6	-	-	0.4	-	9.4	-	22	-	<0.1	<5	12	<2	<0.2	13	180
83 @ 0.15M	2.9	-	-	<0.4	-	7.1	-	14	-	<0.1	<5	8.2	<2	<0.2	<10	86
83 @ 0.50M	2.5	-	-	<0.4	-	5.7	-	11	-	<0.1	<5	6.7	<2	<0.2	<10	71
83 @ 1.00M	<2	-	-	<0.4	-	20	-	37	-	<0.1	<5	26	<2	<0.2	<10	200
84 @ 0.15M	<2	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	23
84 @ 0.50M	<2	-	-	<0.4	-	<5	-	8.3	-	<0.1	<5	<5	<2	<0.2	<10	45
85 @ 0.15M	5.8	-	-	<0.4	-	22	-	23	-	<0.1	<5	19	<2	<0.2	<10	110
85 @ 0.50M	2.4	-	-	<0.4	-	<5	-	<5	-	<0.1	<5	<5	<2	<0.2	<10	40
DUPLICATE 1	6.4	-	-	<0.4	-	14	-	30	-	1.3	<5	11	<2	0.3	36	92
DUPLICATE 2	<2	-	-	<0.4	-	<5	-	6.3	-	3.3	<5	<5	<2	<0.2	<10	68
DUPLICATE 4	2.8	-	-	<0.4	-	13	-	8.4	-	<0.1	<5	7.8	<2	<0.2	<10	21
DUPLICATE 5	4.9	-	-	<0.4	-	8.5	-	32	-	<0.1	<5	11	<2	<0.2	<10	73
DUPLICATE 6	13	-	-	2	-	28	-	97	-	0.6	<5	23	<2	4.1	320	390
DUPLICATE 7	7.6	-	-	<0.4	-	23	-	15	-	<0.1	<5	13	<2	<0.2	<10	93
DUPLICATE 8	5	-	-	<0.4	-	14	-	21	-	<0.1	<5	7.7	<2	<0.2	<10	78
SPLIT 1	6	-	-	<1	-	10	-	58	-	0.6	4	8	<5	<2	40	105
SPLIT 2	<5	-	-	<1	-	5	-	7	-	5	<2	2	<5	<2	<5	28
SPLIT 3	5	-	-	3	-	17	-	53	-	0.2	2	17	<5	111	<5	391
SPLIT 4	<5	-	-	<1	-	14	-	8	-	<0.1	<2	13	<5	<2	<5	35
SPLIT 5	<5	-	-	<1	-	6	-	8	-	<0.1	<2	5	<5	<2	<5	27
SPLIT 6	8	-	-	1	-	21	-	59	-	0.5	<2	16	<5	4	213	127
SPLIT 7	<5	-	-	<1	-	15	-	10	-	<0.1	<2	8	<5	<2	<5	52

Field ID	Organic: TRH >C10-C16	TRH >C16-C34	TRH >C34-C40	Organochlorine Pesticides: 4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate
Units	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	100	100	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05		0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil							10		70				400				
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	3800	5300	7400														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil		1300	5600														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil, 0-2m		300	2800														
63 @ 1.50M	<50	360	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 1.50M	<50	120	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.50M	<50	<100	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 1.50M	-	-	-	<0.05	-	<0.05	<0.1	-	<0.1	-	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
75 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 2.00M	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
82 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix H
Laboratory Data Compilation
Sandringham Golf Driving Range (20 Wangara Road, Sandringham)

Geoaquitards Environmental

	Category	Pentachlorophenol	tetrachlorophenols	Herbicides: 2,4,5-Trichlorophenoxy Acetic Acid	Herbicides: Hedonal	Herbicides: Atrazine	Herbicides: Dinoseb	Herbicides: 2-Methyl-4-chlorophenoxyacetic acid	Herbicides: 2-Methyl-4-Chlorophenoxy Butanoic Acid	Herbicides: Mecoprop	Inorganics: Cyanide (Free)	Inorganics: Cyanide Total	Inorganics: Fluoride	Inorganics: Moisture Content (dried @ 103°C)	Inorganics: pH (aqueous extract)	Lead: Lead
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	pH_Units	mg/kg
EQL		1	1	0.5	0.5	0.2	20	0.5	0.5	0.5	5	5	100	1	0.1	5
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health	**120**		**800**	**1300**	**400**		**800**	**800**	**800**	**240**					**600**
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	Human health															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.												450			1100
ANZECC 1992	Maintenance of (highly modified) ecosystems.														<6 and >8	
US EPA ECO-SSL	Maintenance of (highly modified) ecosystems.															
CSQG Residential/Parkland Use	Maintenance of (highly modified) ecosystems.															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.															
0-2m	Maintenance of (highly modified) ecosystems.															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	Maintenance of (highly modified) ecosystems.															
0-2m	Maintenance of (highly modified) ecosystems.															
SPLIT 8		-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	41
Statistical Summary																
Number of Results		11	9	2	2	2	9	2	2	2	2	8	8	226	8	225
Minimum Concentration		<1	<1	<0.5	<0.5	<0.2	<20	<0.5	<0.5	<0.5	<5	<5	<100	1.2	7.3	<5
Maximum Concentration		<1	<1	<0.5	<0.5	<0.2	<20	<0.5	<0.5	<0.5	<5	<5	260	35	8.8	7200
Average Concentration		0.5	0.5				10					2.5	84	9.1	7.9	95
Median Concentration		0.5	0.5	0.25	0.25	0.1	10	0.25	0.25	0.25	2.5	2.5	50	8.4	7.8	43
Standard Deviation		0	0				0					0	74	5.2	0.51	485
Geometric Standard Deviation													1.8	1.8	1.1	2.6
95% ProUCL 95% Chebyshev (Mean, Sd) UCL																236.2
95% ProUCL 95% Student's-t UCL																

	MAH: 1,2,4-trimethylbenzene	MAH: 1,3,5-trimethylbenzene	MAH: Isopropylbenzene	MAH: Styrene	MAH: Monocylic aromatic hydrocarbons EPAVic	Metals: Arsenic	Metals: Beryllium	Metals: Boron	Metals: Cadmium	Metals: Chromium (hexavalent)	Metals: Chromium (III+VI)	Metals: Cobalt	Metals: Copper	Metals: Manganese	Metals: Mercury	Metals: Molybdenum	Metals: Nickel	Metals: Selenium	Metals: Silver	Metals: Tin	Metals: Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5		2	2	10	0.4	1	2	5	5	5	0.1	2	2	2	0.2	5	5
NEPM 2013 Table 1A(1) HILs Rec C Soil						**300**	**90**	**20000**	**90**	**300**		**300**	**17000**	**19000**	**80**		**1200**	**700**			**30000**
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																					
0-1m																					
1-2m																					
2-4m																					
Csat																					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																					
0-1m																					
1-2m																					
2-4m																					
Csat																					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																					
0-1m																					
1-2m																					
2-4m																					
Csat																					
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space						100					410		220				270	10			730
ANZECC 1992																				50	
US EPA ECO-SSL										130						6.6					
CSQG Residential/Parkland Use									10												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																					
0-2m																					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																					
0-2m																					
SPLIT 8	-	-	-	-	-	<5	-	-	<1	-	9	-	20	-	0.1	<2	5	<5	<2	<5	56
Statistical Summary																					
Number of Results	8	8	8	8	15	225	2	2	225	10	225	2	225	2	225	217	225	219	217	217	225
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.6	<2	<2	<10	<0.4	<1	<5	<5	<5	42	<0.1	<2	2	<2	<0.2	<5	<5
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	2.2	110	<2	<10	14	<1	110	<5	170000	100	6.6	<100	300	<20	111	790	120000
Average Concentration	0.25	0.25	0.25	0.25	0.56	6.8			0.35	0.5	14		774		0.29	2.7	12	1.1	0.96	21	668
Median Concentration	0.25	0.25	0.25	0.25	0.55	4.7	1	5	0.2	0.5	11	2.5	12	71	0.05	2.5	9.6	1	0.1	5	64
Standard Deviation	0	0	0	0	0.47	11			0.98	0	11		11332		0.88	3.2	21	0.71	7.9	75	8003
Geometric Standard Deviation					1.7	2.5			1.7		2.2		3.1	1.8	3	1.3	2.3	1.3	2.7	2.6	3
95% ProUCL 95% Chebyshev (Mean, Sd) UCL						10.22							4068				18.68			47.1	2994
95% ProUCL 95% Student's-t UCL									0.644												

	Organic: TRH >C10-C16	Organic: TRH >C16-C34	Organic: TRH >C34-C40	OCP: 4,4-DDE	OCP: a-BHC	OCP: Aldrin	OCP: Aldrin + Dieldrin	OCP: b-BHC	OCP: chlordane	OCP: d-BHC	OCP: DDD	OCP: DDT	OCP: DDT+DDE+DDD	OCP: Dieldrin	OCP: Endosulfan I	OCP: Endosulfan II	OCP: Endosulfan sulphate
	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	100	100	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05		0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil							**10**		**70**				**400**				
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	**3800**	**5300**	**7400**														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																	
0-1m																	
1-2m																	
2-4m																	
Csat																	
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																	
ANZECC 1992																	
US EPA ECO-SSL																	
CSQG Residential/Parkland Use																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil		1300	5600														
0-2m																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
0-2m		300	2800														
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																	
Number of Results	15	15	15	10	8	10	10	8	10	8	10	10	10	10	10	10	10
Minimum Concentration	<50	<100	<100	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
Maximum Concentration	98	970	240	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05
Average Concentration	30	229	66	0.025	0.025	0.025	0.05	0.025	0.05	0.025	0.025	0.025	0.075	0.025	0.025	0.025	0.025
Median Concentration	25	50	50	0.025	0.025	0.025	0.05	0.025	0.05	0.025	0.025	0.025	0.075	0.025	0.025	0.025	0.025
Standard Deviation	19	297	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geometric Standard Deviation	1.4	3	1.5														
95% ProUCL 95% Chebyshev (Mean, Sd) UCL		570.5															
95% ProUCL 95% Student's-t UCL																	

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
SPLIT 8	3/07/2017	EM1708657008	EM1708657	0.50 M	FILL, silty SAND	

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

Appendix H
Laboratory Data Compilation
Sandringham Golf Driving Range (20 Wangara Road, Sandringham)

Geoaquitards Environmental

															Organophosphorous Pesticides	PAH			PAH/Phenols																												Pesticides	Phenolics			Polychlorinated Biphenyls						
Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Chlorpyrifos	Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *	2,4-dimethylphenol	2,4-dinitrophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Benzo[b+j]fluoranthene	Dibenz(a,h)anthracene	Carcinogenic PAHs IARC (Course Soil Calc)	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Picloram	Pyrene	Mirex	4,6-Dinitro-o-cyclohexyl phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.2	0.5	0.5	0.5	0.5	5	0.2	1	0.4	5	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.01	20	1	20	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Rec C Soil							20				10		400	30	250			3																								300		40000	5700		20										
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																																									1900																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																																																									
0-1m																																									NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									9																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																																																									
0-1m					Human health																																				NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									10																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																																																									
0-1m																																									NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									10																
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																																									170																
ANZECC 1992																																																									
US EPA ECO-SSL																																										18															
CSQG Residential/Parkland Use																																												3.8													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					Maintenance of (highly modified) ecosystems.																																																				
0-2m																															0.7																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																																									
0-2m																															0.7																										
1 AT 0.50M	27/02/2017	M17-Fe28348	535906	0.50 M	FILL, SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	27/02/2017	M17-Fe28349	535906	1.50 M	FILL, sandy CLAY		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1 AT 2.0M	27/02/2017	M17-Fe28350	535906	2.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	27/02/2017	M17-Fe28351	535906	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	27/02/2017	M17-Fe28352	535906	3.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	27/02/2017	M17-Fe28369	535906	0.15 M	FILL, silty SAND		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10 AT 0.50M	27/02/2017	M17-Fe28370	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	27/02/2017	M17-Fe28371	535906	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	27/02/2017	M17-Fe28372	535906	0.15 M	FILL, silty SAND		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
11 AT 1.0M	27/02/2017	M17-Fe28373	535906	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	27/02/2017	M17-Fe28374	535906	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	27/02/2017	M17-Fe28353	535906	1.00 M	FILL, sandy CLAY	Round 1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2 AT 1.50M	27/02/2017	M17-Fe28354	535906	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	27/02/2017	M17-Fe28356	535906	0.50 M	FILL, SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	27/02/2017	M17-Fe28357	535906	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	27/02/2017	M17-Fe28359	535906	1.50 M	FILL, silty SAND		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	0.6	0.9	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	1.181	0.6	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	-	0.7	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6 AT 1.0M	27/02/2017	M17-Fe28361	535906	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	27/02/2017	M17-Fe28363	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	27/02/2017	M17-Fe28364	535906	1.00 M	FILL, silty SAND		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
8 AT 0.50M	27/02/2017	M17-Fe28365	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	27/02/2017	M17-Fe28366	535906	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	27/02/2017	M17-Fe28367	535906	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	27/02/2017	M17-Fe28368	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	3/07/2017	M17-Jl02378	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	3/07/2017	M17-Jl02379	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	3/07/2017	M17-Jl02380	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	3/07/2017	M17-Jl02411	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	3/07/2017	M17-Jl02412	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	3/07/2017	M17-Jl02413	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	3/07/2017	M17-Jl02414	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	3/07/2017	M17-Jl02422	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	3/07/2017	M17-Jl02423	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	3/07/2017	M17-Jl02415	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	3/07/2017	M17-Jl02416	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	3/07/2017	M17-Jl02388	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	3/07/2017	M17-Jl02389	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	3/07/2017	M17-Jl02390	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	-	-	-	-	-	-	-
21 @ 0.15M	3/07/2017	M17-Jl02383	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	3/07/2017	M17-Jl02385	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	3/07/2017	M17-Jl02386	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	3/07/2017	M17-Jl02426	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	3/07/2017	M17-Jl02427	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	3/07/2017	M17-Jl02428	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	3/07/2017	M17-Jl02417	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	3/07/2017	M17-Jl02418	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	3/07/2017	M17-Jl02409	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	3/07/2017	M17-Jl02410	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	3/07/2017	M17-Jl02404	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	3/07/2017	M17-Jl02338	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	3/07/2017	M17-Jl02339	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	3/07/2017	M17-Jl02335	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	3/07/2017	M17-Jl02336	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	3/07/2017	M17-Jl02337	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	3/07/2017	M17-Jl02234	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	3/07/2017	M17-Jl02235	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	3/07/2017	M17-Jl02237	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	3/07/2017	M17-Jl02230	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	3/07/2017	M17-Jl02231	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	3/07/2017	M17-Jl02233	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	3/07/2017	M17-Jl02244	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	3/07/2017	M17-Jl02245	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	3/07/2017	M17-Jl02247	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	3/07/2017	M17-Jl02248	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	3/07/2017	M17-Jl02249	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	3/07/2017	M17-Jl02250	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	3/07/2017	M17-Jl02252	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	3/07/2017	M17-Jl02353	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	3/07/2017	M17-Jl02347	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	3/07/2017	M17-Jl02348	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	3/07/2017	M17-Jl02341	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	3/07/2017	M17-Jl02342	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	3/07/2017	M17-Jl02332	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	3/07/2017	M17-Jl02333	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	3/07/2017	M17-Jl02334	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	3/07/2017	M17-Jl02227	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Geoaquitards Environmental															Organophosphorous Pesticides	PAH			PAH/Phenols																												Pesticides	Phenolics			Polychlorinated Biphenyls						
							Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Chlorpyrifos	Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *	2,4-dimethylphenol	2,4-dinitrophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Benzo[b+j]fluoranthene	Dibenz(a,h)anthracene	Carcinogenic PAHs IARC (Course Soil Calc)	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Picloram	Pyrene	Mirex	4,6-Dinitro-o-cyclohexyl phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.2	0.5	0.5	0.5	0.5	5	0.2	1	0.4	5	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.01	20	1	20	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Rec C Soil							20				10		400	30	250			3																								300		40000	5700		20										
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																																									1900																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																																																									
0-1m																																									NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									9																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt	Human health																																																								
0-1m																																									NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									10																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																																																									
0-1m																																									NL																
1-2m																																									NL																
2-4m																																									NL																
Csat																																									10																
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																																									170																
ANZECC 1992																																																									
US EPA ECO-SSL																																										18															
CSQG Residential/Parkland Use																																												3.8													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.																																																								
0-2m																															0.7																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																																									
0-2m																															0.7																										
Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds																																																				
38 @ 0.50M	3/07/2017	M17-JI02228	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.15M	3/07/2017	M17-JI02239	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.50M	3/07/2017	M17-JI02240	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 1.00M	3/07/2017	M17-JI02241	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 2.50M	3/07/2017	M17-JI02243	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 0.15M	3/07/2017	M17-JI02253	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 1.50M	3/07/2017	M17-JI02254	552701	1.50 M	FILL, silty SAND, Rubbish		<0.05	-	-	-	<0.05	-	<0.05	<1	<0.2	<0.5	0.6	1.2	-	-	<0.2	-	<0.4	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	1.126	0.5	<0.5	<0.5	0.6	3.2	0.8	<0.5	<2.5	0.7	<0.05	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
40 @ 3.00M	3/07/2017	M17-JI02255	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.15M	3/07/2017	M17-JI02354	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.50M	3/07/2017	M17-JI02355	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 1.00M	3/07/2017	M17-JI02356	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 0.15M	3/07/2017	M17-JI02360	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 2.50M	3/07/2017	M17-JI02361	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 3.00M	3/07/2017	M17-JI02362	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 1.50M	3/07/2017	M17-JI02319	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.15M	3/07/2017	M17-JI02264	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.50M	3/07/2017	M17-JI02265	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 3.00M	3/07/2017	M17-JI02266	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 0.15M	3/07/2017	M17-JI02223	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 1.00M	3/07/2017	M17-JI02224	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 3.00M	3/07/2017	M17-JI02226	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 0.15M	3/07/2017	M17-JI02219	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 1.50M	3/07/2017	M17-JI02220	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	1.2	1.4	1.7	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	0.7	0.9	0.7	0.6	0.7	0.7	<0.5	2.614	1.3	<0.5	0.5	<2 - 1.1	8	0.7	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-
47 @ 3.00M	3/07/2017	M17-JI02222	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 0.15M	3/07/2017	M17-JI02310	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 1.50M	3/07/2017	M17-JI02311	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 2.00M	3/07/2017	M17-JI02312	552701	2.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 3.00M	3/07/2017	M17-JI02314	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.15M	3/07/2017	M17-JI02357	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.50M	3/07/2017	M17-JI02358	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 2.00M	3/07/2017	M17-JI02359	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 1.50M	3/07/2017	M17-JI02323	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 2.50M	3/07/2017	M17-JI02324	552701	2.50 M	FILL, clayey SAND, Rubbish		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	0.6	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	-	0.7	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
51 @ 3.00M	3/07/2017	M17-JI02325	552701	3.00 M	FILL, clayey SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.15M	3/07/2017	M17-JI02274	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.50M	3/07/2017	M17-JI02275	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 1.00M	3/07/2017	M17-JI02276	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 2.50M	3/07/2017	M17-JI02277	552701	2.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 3.00M	3/07/2017	M17-JI02278	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.15M	3/07/2017	M17-JI02261	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.50M	3/07/2017	M17-JI02262	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 1.00M	3/07/2017	M17-JI02263	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.15M	3/07/2017	M17-JI02200	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.50M	3/07/2017	M17-JI02201	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 1.00M	3/07/2017	M17-JI02202	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 2.50M	3/07/2017	M17-JI02203	552701	2.50 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5 - 0.6	0.6	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
54 @ 3.00M	3/07/2017	M17-JI02204	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 0.50M	3/07/2017	M17-JI02215	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 2.50M	3/07/2017	M17-JI02217	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 3.00M	3/07/2017	M17-JI02218	552701	3.00 M	FILL, silty SAND, Rubbish	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.15M	3/07/2017	M17-JI02306	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.50M	3/07/2017	M17-JI02307	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 2.00M	3/07/2017	M17-JI02308	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 3.00M	3/07/2017	M17-JI02309	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.15M	3/07/2017	M17-JI02281	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.50M	3/07/2017	M17-JI02282	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 1.00M	3/07/2017	M17-JI02283	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 2.50M	3/07/2017	M17-JI02284	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.15M	3/07/2017	M17-JI02366	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.50M	3/07/2017	M17-JI02367	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 1.00M	3/07/2017	M17-JI02368	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 0.15M	3/07/2017	M17-JI02326	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 2.50M	3/07/2017	M17-JI02327	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.15M	3/07/2017	M17-JI02271	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.50M	3/07/2017	M17-JI02272	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 3.00M	3/07/2017	M17-JI02273	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.15M	3/07/2017	M17-JI02258	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.50M	3/07/2017	M17-JI02259	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 3.00M	3/07/2017	M17-JI02260	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.15M	3/07/2017	M17-JI02197	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.50M	3/07/2017	M17-JI02198	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 1.50M	3/07/2017	M17-JI02199	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.15M	3/07/2017	M17-JI02209	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.50M	3/07/2017	M17-JI02210	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 1.00M	3/07/2017	M17-JI02211	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

															Organophosphorous Pesticides	PAH			PAH/Phenols																												Pesticides	Phenolics			Polychlorinated Biphenyls						
Geoaquitards Environmental							Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Chlorpyrifos	Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *	2,4-dimethylphenol	2,4-dinitrophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Benzo[b+j]fluoranthene	Dibenz(a,h)anthracene	Carcinogenic PAHs IARC (Course Soil Calc)	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Picloram	Pyrene	Mirex	4,6-Dinitro-o-cyclohexyl phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.2	0.5	0.5	0.5	0.5	5	0.2	1	0.4	5	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.01	20	1	20	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Rec C Soil				Human health			20				10		400	30	250			3																												300		40000	5700		20										
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																																										1900																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																																																										
0-1m																																										NL																
1-2m																																										NL																
2-4m																																										NL																
Csat																																										9																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																																																										
0-1m																																										NL																
1-2m																																										NL																
2-4m																																										NL																
Csat																																										10																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																																																										
0-1m																																										NL																
1-2m																																										NL																
2-4m																																										NL																
Csat																																										10																
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space				Maintenance of (highly modified) ecosystems.																																						170																
ANZECC 1992																																																										
US EPA ECO-SSL																																											18															
CSQG Residential/Parkland Use																																													3.8													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																																										
0-2m																																0.7																										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																																										
0-2m																																0.7																										
Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds																																																				
63 @ 1.50M	3/07/2017	M17-JI02212	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
63 @ 3.00M	3/07/2017	M17-JI02214	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 0.50M	3/07/2017	M17-JI02303	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 1.00M	3/07/2017	M17-JI02304	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 2.50M	3/07/2017	M17-JI02305	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 0.15M	3/07/2017	M17-JI02285	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 1.00M	3/07/2017	M17-JI02286	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.00M	3/07/2017	M17-JI02287	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.50M	3/07/2017	M17-JI02288	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 3.00M	3/07/2017	M17-JI02289	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 @ 1.50M	3/07/2017	M17-JI02370	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.15M	3/07/2017	M17-JI02268	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.50M	3/07/2017	M17-JI02269	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.15M	3/07/2017	M17-JI02193	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.50M	3/07/2017	M17-JI02194	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 1.50M	3/07/2017	M17-JI02195	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	1.7	2	2.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	1.1	1.3	1.2	1.2	1.3	1.1	<0.5	4.848	1.9	<0.5	0.8	<0.5	12.8	1	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-
68 @ 2.00M	3/07/2017	M17-JI02196	552701	2.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 0.50M	3/07/2017	M17-JI02297	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 1.00M	3/07/2017	M17-JI02298	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.00M	3/07/2017	M17-JI02299	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.50M	3/07/2017	M17-JI02300	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 3.00M	3/07/2017	M17-JI02301	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.15M	3/07/2017	M17-JI02328	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.50M	3/07/2017	M17-JI02329	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 1.50M	3/07/2017	M17-JI02330	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 3.00M	3/07/2017	M17-JI02331	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71 @ 2.50M	3/07/2017	M17-JI02377	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.15M	3/07/2017	M17-JI02256	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.50M	3/07/2017	M17-JI02257	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 0.50M	3/07/2017	M17-JI02189	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.00M	3/07/2017	M17-JI02190	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.50M	3/07/2017	M17-JI02191	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	<0.5	0.6	1.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
73 @ 3.00M	3/07/2017	M17-JI02192	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.15M	3/07/2017	M17-JI02206	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.50M	3/07/2017	M17-JI02207	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 3.00M	3/07/2017	M17-JI02208	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.15M	3/07/2017	M17-JI02291	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.50M	3/07/2017	M17-JI02292	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 1.50M	3/07/2017	M17-JI02293	552701	1.50 M	FILL, silty SAND, Rubbish		<0.05	-	-	-	<0.05	-	<0.05	<1	<0.2	<0.5	0.6	1.2	-	-	<0.2	-	<0.4	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	0.6	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	0.6	<0.05	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
75 @ 2.00M	3/07/2017	M17-JI02294	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.50M	3/07/2017	M17-JI02295	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76 @ 2.50M	3/07/2017	M17-JI02290	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77 @ 3.00M	3/07/2017	M17-JI02403	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.15M	3/07/2017	M17-JI02375	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.50M	3/07/2017	M17-JI02376	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 1.00M	3/07/2017	M17-JI02373	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 3.00M	3/07/2017	M17-JI02374	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.15M	3/07/2017	M17-JI02371	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.50M	3/07/2017	M17-JI02372	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81 @ 0.15M	3/07/2017	M17-JI02398	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.15M	3/07/2017	M17-JI02394	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.50M	3/07/2017	M17-JI02395	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 2.00M	3/07/2017	M17-JI02396	552701	2.00 M	FILL, silty SAND, Rubbish		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	-	<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
82 @ 3.00M	3/07/2017	M17-JI02397	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.15M	3/07/2017	M17-JI02391	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.50M	3/07/2017	M17-JI02392	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 1.00M	3/07/2017	M17-JI02393	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.15M	3/07/2017	M17-JI02399	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.50M	3/07/2017	M17-JI02400	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.15M	3/07/2017	M17-JI02401	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.50M	3/07/2017	M17-JI02402	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 1	3/07/2017	M17-JI02205	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 2	3/07/2017	M17-JI02238	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 4	3/07/2017	M17-JI02267	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 5	3/07/2017	M17-JI02315	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 6	3/07/2017	M17-JI02316	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 7	3/07/2017	M17-JI02317	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 8	3/07/2017	M17-JI02346	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 1	3/07/2017	EM1708657001	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 2	3/07/2017	EM1708657002	EM1708657	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 3	3/07/2017	EM1708657003	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 4	3/07/2017	EM1708657004	EM1708657	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 5	3/07/2017	EM1708657005	EM1708657	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 6	3/07/2017	EM1708657006	EM1708657	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 7	3/07/2017	EM1708657007	EM1708657	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Geoaquitards Environmental

										Organophosphorous Pesticides	PAH		
		Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Chlorpyrifos	Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG
EQL		0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.2	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil	**Human health**	**20**				**10**		**400**	**30**	**250**			**3**
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand													
0-1m													
1-2m													
2-4m													
Csat													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt													
0-1m													
1-2m													
2-4m													
Csat													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay													
0-1m													
1-2m													
2-4m													
Csat													
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.												
ANZECC 1992													
US EPA ECO-SSL													
CSQG Residential/Parkland Use													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil													
0-2m													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil													
0-2m													
SPLIT 8		-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary													
Number of Results		10	8	8	8	10	8	10	10	2	17	17	17
Minimum Concentration		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	<0.5	0.6	1.2
Maximum Concentration		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	1.7	2	2.2
Average Concentration		0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.5		0.41	0.75	1.3
Median Concentration		0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.5	0.1	0.25	0.6	1.2
Standard Deviation		0	0	0	0	0	0	0	0		0.41	0.38	0.26
Geometric Standard Deviation											1.8	1.4	1.2
95% ProUCL	95% Chebyshev (Mean, Sd) UCL												
	95% Student's-t UCL												

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds
SPLIT 8	3/07/2017	EM1708657008	EM1708657	0.50 M	FILL, silty SAND	

	PAH/Phenols													
	2,4-dimethylphenol	2,4-dinitrophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	5	0.2	1	0.4	5	1	5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand														
0-1m														
1-2m														
2-4m														
Csat														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt														
0-1m														
1-2m														
2-4m														
Csat														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay														
0-1m														
1-2m														
2-4m														
Csat														
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space														
ANZECC 1992														
US EPA ECO-SSL														
CSQG Residential/Parkland Use														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														
0-2m													0.7	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil														
0-2m													0.7	
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary														
Number of Results	9	9	11	9	11	9	9	9	17	17	17	17	17	17
Minimum Concentration	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Concentration	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	1.1	1.3	1.2
Average Concentration	0.25	2.5	0.1	0.5	0.2	2.5	0.5	2.5	0.25	0.25	0.25	0.33	0.36	0.33
Median Concentration	0.25	2.5	0.1	0.5	0.2	2.5	0.5	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0.23	0.29	0.25
Geometric Standard Deviation												1.5	1.7	1.6
95% ProUCL 95% Chebyshev (Mean, Sd) UCL														
95% Student's-t UCL													0.66	

	PAH/Phenols													
	Benzo(k)fluoranthene	Chrysene	Benzo[b+j]fluoranthene	Dibenz(a,h)anthracene	Carcinogenic PAHs IARC (Course Soil Calc)	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Picloram	Pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil										**300**		**40000**	**5700**	
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space									**1900**					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand														
0-1m									**NL**					
1-2m									**NL**					
2-4m									**NL**					
Csat									**9**					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt														
0-1m									**NL**					
1-2m									**NL**					
2-4m									**NL**					
Csat									**10**					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay														
0-1m									**NL**					
1-2m									**NL**					
2-4m									**NL**					
Csat									**10**					
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space									170					
ANZECC 1992														
US EPA ECO-SSL										18				
CSQG Residential/Parkland Use												3.8		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														
0-2m														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil														
0-2m														
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary														
Number of Results	17	17	17	17	17	17	17	17	17	17	17	11	2	17
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	1.126	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Concentration	1.2	1.3	1.1	<0.5	4.848	1.9	<0.5	0.8	1.1	12.8	1	<0.5	<2.5	1.9
Average Concentration	0.33	0.36	0.34	0.25	1.4	0.49	0.25	0.3	0.33	1.9	0.35	0.25		0.52
Median Concentration	0.25	0.25	0.25	0.25	1.107	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.75	0.25
Standard Deviation	0.24	0.28	0.23	0	0.96	0.46	0	0.14	0.21	3.4	0.24	0		0.45
Geometric Standard Deviation	1.5	1.6	1.6		1.5	1.9		1.4	1.5	3.8	1.6		3.1	1.9
95% ProUCL 95% Chebyshev (Mean, Sd) UCL														
95% Student's-t UCL														

	Pesticides	Phenolics			Polychlorinated Biphenyls						
	Mirex	4,6-Dinitro-o-cyclohexyl phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.01	20	1	20	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Rec C Soil	**20**										
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand											
0-1m											
1-2m											
2-4m											
Csat											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt											
0-1m											
1-2m											
2-4m											
Csat											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay											
0-1m											
1-2m											
2-4m											
Csat											
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space											
ANZECC 1992											
US EPA ECO-SSL											
CSQG Residential/Parkland Use											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil											
0-2m											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil											
0-2m											
SPLIT 8	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary											
Number of Results	2	9	9	9	10	10	10	10	10	10	10
Minimum Concentration	<0.05	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.05	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration		10	0.5	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Median Concentration	0.025	10	0.5	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Standard Deviation		0	0	0	0	0	0	0	0	0	0
Geometric Standard Deviation											
95% ProUCL 95% Chebyshev (Mean, Sd) UCL											
95% Student's-t UCL											

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

								Solvents						TPH								VOCs
								PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2- pentanone	Acetone	Allyl chloride	Carbon disulfide	ES minus BTEX (C6-C10)	F2 -Naptth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.1	0.5	0.5	0.5	0.5	0.5	20	50	20	20	50	50	50	20	
NEPM 2013 Table 1A(1) HILs Rec C Soil								1														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																					5100	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														950	560							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														910	570							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														850	560							
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																						
ANZECC 1992																						
US EPA ECO-SSL																						
CSOG Residential/Parkland Use								1 1														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														180	120							
0-2m																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
0-2m														180	120							

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds																
1 AT 0.50M	27/02/2017	M17-Fe28348	535906	0.50 M	FILL, SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 1.50M	27/02/2017	M17-Fe28349	535906	1.50 M	FILL, sandy CLAY		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
1 AT 2.0M	27/02/2017	M17-Fe28350	535906	2.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.0M	27/02/2017	M17-Fe28351	535906	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 AT 3.50M	27/02/2017	M17-Fe28352	535906	3.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 0.15M	27/02/2017	M17-Fe28369	535906	0.15 M	FILL, silty SAND		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
10 AT 0.50M	27/02/2017	M17-Fe28370	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 AT 1.0M	27/02/2017	M17-Fe28371	535906	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 0.15M	27/02/2017	M17-Fe28372	535906	0.15 M	FILL, silty SAND		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
11 AT 1.0M	27/02/2017	M17-Fe28373	535906	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 AT 1.50M	27/02/2017	M17-Fe28374	535906	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 AT 1.0M	27/02/2017	M17-Fe28353	535906	1.00 M	FILL, sandy CLAY	Round 1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	95	110	205	<20	<2
2 AT 1.50M	27/02/2017	M17-Fe28354	535906	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 AT 0.50M	27/02/2017	M17-Fe28356	535906	0.50 M	FILL, SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 AT 0.15M	27/02/2017	M17-Fe28357	535906	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 AT 1.50M	27/02/2017	M17-Fe28359	535906	1.50 M	FILL, silty SAND		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	22	160	<50	182	<20	<2
6 AT 1.0M	27/02/2017	M17-Fe28361	535906	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 0.50M	27/02/2017	M17-Fe28363	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 AT 1.0M	27/02/2017	M17-Fe28364	535906	1.00 M	FILL, silty SAND		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
8 AT 0.50M	27/02/2017	M17-Fe28365	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 AT 1.50M	27/02/2017	M17-Fe28366	535906	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.15M	27/02/2017	M17-Fe28367	535906	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 AT 0.50M	27/02/2017	M17-Fe28368	535906	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 @ 0.15M	3/07/2017	M17-JI02378	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.15M	3/07/2017	M17-JI02379	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 0.50M	3/07/2017	M17-JI02380	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.15M	3/07/2017	M17-JI02411	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 @ 0.50M	3/07/2017	M17-JI02412	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.15M	3/07/2017	M17-JI02413	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 @ 0.50M	3/07/2017	M17-JI02414	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.15M	3/07/2017	M17-JI02422	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 0.50M	3/07/2017	M17-JI02423	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.15M	3/07/2017	M17-JI02415	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 @ 0.50M	3/07/2017	M17-JI02416	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.15M	3/07/2017	M17-JI02388	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 0.50M	3/07/2017	M17-JI02389	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 @ 1.50M	3/07/2017	M17-JI02390	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	
21 @ 0.15M	3/07/2017	M17-JI02383	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.15M	3/07/2017	M17-JI02385	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 0.50M	3/07/2017	M17-JI02386	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 0.15M	3/07/2017	M17-JI02426	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 2.50M	3/07/2017	M17-JI02427	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 @ 3.00M	3/07/2017	M17-JI02428	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.15M	3/07/2017	M17-JI02417	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 @ 0.50M	3/07/2017	M17-JI02418	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.15M	3/07/2017	M17-JI02409	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 @ 0.50M	3/07/2017	M17-JI02410	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 @ 0.15M	3/07/2017	M17-JI02404	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.15M	3/07/2017	M17-JI02338	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 0.50M	3/07/2017	M17-JI02339	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.15M	3/07/2017	M17-JI02335	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 0.50M	3/07/2017	M17-JI02336	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 @ 2.50M	3/07/2017	M17-JI02337	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.15M	3/07/2017	M17-JI02234	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 0.50M	3/07/2017	M17-JI02235	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 @ 3.00M	3/07/2017	M17-JI02237	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.15M	3/07/2017	M17-JI02230	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 0.50M	3/07/2017	M17-JI02231	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 @ 3.00M	3/07/2017	M17-JI02233	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.15M	3/07/2017	M17-JI02244	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 0.50M	3/07/2017	M17-JI02245	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32 @ 3.00M	3/07/2017	M17-JI02247	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.15M	3/07/2017	M17-JI02248	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 0.50M	3/07/2017	M17-JI02249	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 1.50M	3/07/2017	M17-JI02250	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 @ 3.00M	3/07/2017	M17-JI02252	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 @ 2.50M	3/07/2017	M17-JI02353	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.15M	3/07/2017	M17-JI02347	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 0.50M	3/07/2017	M17-JI02348	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.15M	3/07/2017	M17-JI02341	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 0.50M	3/07/2017	M17-JI02342	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.15M	3/07/2017	M17-JI02332	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 0.50M	3/07/2017	M17-JI02333	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 @ 2.50M	3/07/2017	M17-JI02334	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 @ 0.15M	3/07/2017	M17-JI02227	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				Solvents						TPH								VOCs
				PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2- pentanone	Acetone	Allyl chloride	Carbon disulfide	F1 minus BTEX (C6-C10)	F2 -Naptth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.5	0.5	0.5	0.5	0.5	20	50	20	20	50	50	50	20	
NEPM 2013 Table 1A(1) HILs Rec C Soil				1														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																	5100	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																		
0-1m										NL	NL							
1-2m										NL	NL							
2-4m										NL	NL							
Csat										950	560							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																		
0-1m										NL	NL							
1-2m										NL	NL							
2-4m										NL	NL							
Csat										910	570							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																		
0-1m										NL	NL							
1-2m										NL	NL							
2-4m										NL	NL							
Csat										850	560							
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																		
ANZECC 1992																		
US EPA ECO-SSL																		
CSOG Residential/Parkland Use				1.1														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil										180	120							
0-2m																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																		
0-2m										180	120							
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**	**Sampling Rounds**												
38 @ 0.50M	3/07/2017	M17-JI02228	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.15M	3/07/2017	M17-JI02239	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 0.50M	3/07/2017	M17-JI02240	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 1.00M	3/07/2017	M17-JI02241	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 @ 2.50M	3/07/2017	M17-JI02243	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 0.15M	3/07/2017	M17-JI02253	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 1.50M	3/07/2017	M17-JI02254	552701	1.50 M	FILL, silty SAND, Rubbish		<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
40 @ 3.00M	3/07/2017	M17-JI02255	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.15M	3/07/2017	M17-JI02354	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 0.50M	3/07/2017	M17-JI02355	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 @ 1.00M	3/07/2017	M17-JI02356	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 0.15M	3/07/2017	M17-JI02360	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 2.50M	3/07/2017	M17-JI02361	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 @ 3.00M	3/07/2017	M17-JI02362	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 1.50M	3/07/2017	M17-JI02319	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.15M	3/07/2017	M17-JI02264	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 0.50M	3/07/2017	M17-JI02265	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
45 @ 3.00M	3/07/2017	M17-JI02266	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 0.15M	3/07/2017	M17-JI02223	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 1.00M	3/07/2017	M17-JI02224	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-
46 @ 3.00M	3/07/2017	M17-JI02226	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 0.15M	3/07/2017	M17-JI02219	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-
47 @ 1.50M	3/07/2017	M17-JI02220	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	<20	97	<20	73	520	430	1023	<20	-
47 @ 3.00M	3/07/2017	M17-JI02222	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 0.15M	3/07/2017	M17-JI02310	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 1.50M	3/07/2017	M17-JI02311	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 2.00M	3/07/2017	M17-JI02312	552701	2.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48 @ 3.00M	3/07/2017	M17-JI02314	552701	3.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.15M	3/07/2017	M17-JI02357	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 0.50M	3/07/2017	M17-JI02358	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49 @ 2.00M	3/07/2017	M17-JI02359	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 1.50M	3/07/2017	M17-JI02323	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51 @ 2.50M	3/07/2017	M17-JI02324	552701	2.50 M	FILL, clayey SAND, Rubbish		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
51 @ 3.00M	3/07/2017	M17-JI02325	552701	3.00 M	FILL, clayey SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.15M	3/07/2017	M17-JI02274	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 0.50M	3/07/2017	M17-JI02275	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 1.00M	3/07/2017	M17-JI02276	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 2.50M	3/07/2017	M17-JI02277	552701	2.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 @ 3.00M	3/07/2017	M17-JI02278	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.15M	3/07/2017	M17-JI02261	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 0.50M	3/07/2017	M17-JI02262	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53 @ 1.00M	3/07/2017	M17-JI02263	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.15M	3/07/2017	M17-JI02200	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 0.50M	3/07/2017	M17-JI02201	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 1.00M	3/07/2017	M17-JI02202	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54 @ 2.50M	3/07/2017	M17-JI02203	552701	2.50 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	<20	<50	<20	<20	670	300	970	<20	-
54 @ 3.00M	3/07/2017	M17-JI02204	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 0.50M	3/07/2017	M17-JI02215	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 2.50M	3/07/2017	M17-JI02217	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55 @ 3.00M	3/07/2017	M17-JI02218	552701	3.00 M	FILL, silty SAND, Rubbish	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.15M	3/07/2017	M17-JI02306	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 0.50M	3/07/2017	M17-JI02307	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 2.00M	3/07/2017	M17-JI02308	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56 @ 3.00M	3/07/2017	M17-JI02309	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.15M	3/07/2017	M17-JI02281	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 0.50M	3/07/2017	M17-JI02282	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 1.00M	3/07/2017	M17-JI02283	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57 @ 2.50M	3/07/2017	M17-JI02284	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.15M	3/07/2017	M17-JI02366	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 0.50M	3/07/2017	M17-JI02367	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 1.00M	3/07/2017	M17-JI02368	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 0.15M	3/07/2017	M17-JI02326	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59 @ 2.50M	3/07/2017	M17-JI02327	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.15M	3/07/2017	M17-JI02271	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 0.50M	3/07/2017	M17-JI02272	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60 @ 3.00M	3/07/2017	M17-JI02273	552701	3.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.15M	3/07/2017	M17-JI02258	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 0.50M	3/07/2017	M17-JI02259	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61 @ 3.00M	3/07/2017	M17-JI02260	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.15M	3/07/2017	M17-JI02197	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 0.50M	3/07/2017	M17-JI02198	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62 @ 1.50M	3/07/2017	M17-JI02199	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	<20	<50	<20	<20	280	94	374	<20	-
63 @ 0.15M	3/07/2017	M17-JI02209	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 0.50M	3/07/2017	M17-JI02210	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63 @ 1.00M	3/07/2017	M17-JI02211	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

			Solvents						TPH									VOCs
		PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2- pentanone	Acetone	Allyl chloride	Carbon disulfide	F1 minus BTEX (C6-C10)	F2 -Naptth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	0.5	0.5	0.5	0.5	0.5	20	50	20	20	50	50	50	20	
NEPM 2013 Table 1A(1) HILs Rec C Soil		1														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space															5100	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																
0-1m								NL	NL							
1-2m								NL	NL							
2-4m								NL	NL							
Csat								950	560							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																
0-1m								NL	NL							
1-2m								NL	NL							
2-4m								NL	NL							
Csat								910	570							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																
0-1m								NL	NL							
1-2m								NL	NL							
2-4m								NL	NL							
Csat								850	560							
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																
ANZECC 1992																
US EPA ECO-SSL																
CSOG Residential/Parkland Use		1 1														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								180	120							
0-2m																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																
0-2m								180	120							

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds													
63 @ 1.50M	3/07/2017	M17-JI02212	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	<20	<50	<20	<20	200	200	400	<20	-
63 @ 3.00M	3/07/2017	M17-JI02214	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 0.50M	3/07/2017	M17-JI02303	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 1.00M	3/07/2017	M17-JI02304	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64 @ 2.50M	3/07/2017	M17-JI02305	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 0.15M	3/07/2017	M17-JI02285	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 1.00M	3/07/2017	M17-JI02286	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.00M	3/07/2017	M17-JI02287	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 2.50M	3/07/2017	M17-JI02288	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65 @ 3.00M	3/07/2017	M17-JI02289	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 @ 1.50M	3/07/2017	M17-JI02370	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.15M	3/07/2017	M17-JI02268	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67 @ 0.50M	3/07/2017	M17-JI02269	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.15M	3/07/2017	M17-JI02193	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 0.50M	3/07/2017	M17-JI02194	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68 @ 1.50M	3/07/2017	M17-JI02195	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	<20	<50	<20	<20	74	53	127	<20	-
68 @ 2.00M	3/07/2017	M17-JI02196	552701	2.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 0.50M	3/07/2017	M17-JI02297	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 1.00M	3/07/2017	M17-JI02298	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.00M	3/07/2017	M17-JI02299	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 2.50M	3/07/2017	M17-JI02300	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69 @ 3.00M	3/07/2017	M17-JI02301	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.15M	3/07/2017	M17-JI02328	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 0.50M	3/07/2017	M17-JI02329	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 1.50M	3/07/2017	M17-JI02330	552701	1.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70 @ 3.00M	3/07/2017	M17-JI02331	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71 @ 2.50M	3/07/2017	M17-JI02377	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.15M	3/07/2017	M17-JI02256	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72 @ 0.50M	3/07/2017	M17-JI02257	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 0.50M	3/07/2017	M17-JI02189	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.00M	3/07/2017	M17-JI02190	552701	1.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73 @ 1.50M	3/07/2017	M17-JI02191	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
73 @ 3.00M	3/07/2017	M17-JI02192	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.15M	3/07/2017	M17-JI02206	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 0.50M	3/07/2017	M17-JI02207	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74 @ 3.00M	3/07/2017	M17-JI02208	552701	3.00 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.15M	3/07/2017	M17-JI02291	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 0.50M	3/07/2017	M17-JI02292	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 1.50M	3/07/2017	M17-JI02293	552701	1.50 M	FILL, silty SAND, Rubbish		<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.00M	3/07/2017	M17-JI02294	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75 @ 2.50M	3/07/2017	M17-JI02295	552701	2.50 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76 @ 2.50M	3/07/2017	M17-JI02290	552701	2.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77 @ 3.00M	3/07/2017	M17-JI02403	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.15M	3/07/2017	M17-JI02375	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78 @ 0.50M	3/07/2017	M17-JI02376	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 1.00M	3/07/2017	M17-JI02373	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79 @ 3.00M	3/07/2017	M17-JI02374	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.15M	3/07/2017	M17-JI02371	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 @ 0.50M	3/07/2017	M17-JI02372	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81 @ 0.15M	3/07/2017	M17-JI02398	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.15M	3/07/2017	M17-JI02394	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 0.50M	3/07/2017	M17-JI02395	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82 @ 2.00M	3/07/2017	M17-JI02396	552701	2.00 M	FILL, silty SAND, Rubbish		<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
82 @ 3.00M	3/07/2017	M17-JI02397	552701	3.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.15M	3/07/2017	M17-JI02391	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 0.50M	3/07/2017	M17-JI02392	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83 @ 1.00M	3/07/2017	M17-JI02393	552701	1.00 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.15M	3/07/2017	M17-JI02399	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84 @ 0.50M	3/07/2017	M17-JI02400	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.15M	3/07/2017	M17-JI02401	552701	0.15 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85 @ 0.50M	3/07/2017	M17-JI02402	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 1	3/07/2017	M17-JI02205	552701	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 2	3/07/2017	M17-JI02238	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 4	3/07/2017	M17-JI02267	552701	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 5	3/07/2017	M17-JI02315	552701	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 6	3/07/2017	M17-JI02316	552701	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 7	3/07/2017	M17-JI02317	552701	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLICATE 8	3/07/2017	M17-JI02346	552701	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 1	3/07/2017	EM1708657001	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 2	3/07/2017	EM1708657002	EM1708657	0.50 M	FILL, silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 3	3/07/2017	EM1708657003	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 4	3/07/2017	EM1708657004	EM1708657	0.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 5	3/07/2017	EM1708657005	EM1708657	2.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 6	3/07/2017	EM1708657006	EM1708657	1.00 M	FILL, silty SAND, Rubbish		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT 7	3/07/2017	EM1708657007	EM1708657	1.50 M	FILL, sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

								Solvents						TPH								VOCs
								PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2- pentanone	Acetone	Allyl chloride	Carbon disulfide	F1 minus BTEX (C6-C10)	F2 -Napth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.1	0.5	0.5	0.5	0.5	0.5	20	50	20	20	50	50	50	20	
NEPM 2013 Table 1A(1) HILs Rec C Soil								1														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																					5100	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														950	560							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														910	570							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																						
0-1m														NL	NL							
1-2m														NL	NL							
2-4m														NL	NL							
Csat														850	560							
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																						
ANZECC 1992																						
US EPA ECO-SSL																						
CSOG Residential/Parkland Use								1 1														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil														180	120							
0-2m																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
0-2m														180	120							
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**	**Sampling Rounds**																
SPLIT 8	3/07/2017	EM1708657008	EM1708657	0.50 M	FILL, silty SAND			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																						
Number of Results								10	8	8	8	8	8	15	15	15	15	15	15	15	15	8
Minimum Concentration								<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
Maximum Concentration								<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	97	<20	73	670	430	1023	<20	<2
Average Concentration								0.05	0.25	0.25	0.25	0.25	0.25	10	30	10	15	147	94	232	10	1
Median Concentration								0.05	0.25	0.25	0.25	0.25	0.25	10	25	10	10	25	25	25	10	1
Standard Deviation								0	0	0	0	0	0	0	19	0	16	200	123	335	0	0
Geometric Standard Deviation															1.4		1.7	3.4	2.8	4.3		
95% ProUCL	95% Chebyshev (Mean, Sd) UCL																					
	95% Student's-t UCL																					

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be
Prescribed Industrial Wastes (PIWs)

Geoaquitards Environmental

		Heavy Metal	OCP		BTEX					
		Iron (%)	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
		%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.01			0.1	0.1	0.1	0.2	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil	**Human health**									
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space					**120**	**5300**	**18000**			**15000**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand										
0-1m					**NL**	**NL**	**NL**			**NL**
1-2m					**NL**	**NL**	**NL**			**NL**
2-4m					**NL**	**NL**	**NL**			**NL**
Csat					**360**	**64**	**560**			**300**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt										
0-1m					**NL**	**NL**	**NL**			**NL**
1-2m					**NL**	**NL**	**NL**			**NL**
2-4m					**NL**	**NL**	**NL**			**NL**
Csat					**440**	**69**	**640**			**330**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay										
0-1m					**NL**	**NL**	**NL**			**NL**
1-2m					**NL**	**NL**	**NL**			**NL**
2-4m					**NL**	**NL**	**NL**			**NL**
Csat					**430**	**68**	**630**			**330**
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.									
ANZECC 1992										
US EPA ECO-SSL										
CSQG Residential/Parkland Use										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					65		105			
0-2m						125				45
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil										
0-2m					50	70	85			105

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds	Iron (%)	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
4 AT 1.50M	27/02/2017	M17-Fe28358	535906	1.50 M	silty CLAY	Round 1	-	-	-	-	-	-	-	-	-
13 @ 2.00M	3/07/2017	M17-Jl02381	552701	2.00 M	silty SAND		-	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
13 @ 3.00M	3/07/2017	M17-Jl02382	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-
16 @ 2.50M	3/07/2017	M17-Jl02424	552701	2.50 M	clayey SAND		-	<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
16 @ 3.00M	3/07/2017	M17-Jl02425	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-
18 @ 0.15M	3/07/2017	M17-Jl02407	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-
18 @ 0.50M	3/07/2017	M17-Jl02408	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-
19 @ 0.15M	3/07/2017	M17-Jl02405	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-
19 @ 0.50M	3/07/2017	M17-Jl02406	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-
21 @ 2.50M	3/07/2017	M17-Jl02384	552701	2.50 M	clayey SAND		-	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
22 @ 3.00M	3/07/2017	M17-Jl02387	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-
23 @ 0.15M	3/07/2017	M17-Jl02419	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-
23 @ 0.50M	3/07/2017	M17-Jl02420	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-
23 @ 2.50M	3/07/2017	M17-Jl02421	552701	2.50 M	sandy CLAY		1.2	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
28 @ 2.50M	3/07/2017	M17-Jl02340	552701	2.50 M	clayey SAND	Round 2	-	-	-	-	-	-	-	-	-
35 @ 1.50M	3/07/2017	M17-Jl02349	552701	1.50 M	silty SAND		-	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
35 @ 2.00M	3/07/2017	M17-Jl02350	552701	2.00 M	silty SAND		-	-	-	-	-	-	-	-	-
35 @ 2.50M	3/07/2017	M17-Jl02351	552701	2.50 M	silty SAND		-	-	-	-	-	-	-	-	-
35 @ 3.00M	3/07/2017	M17-Jl02352	552701	3.00 M	silty SAND		-	-	-	-	-	-	-	-	-
36 @ 2.00M	3/07/2017	M17-Jl02343	552701	2.00 M	sily SAND		-	-	-	-	-	-	-	-	-
36 @ 2.50M	3/07/2017	M17-Jl02344	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-
36 @ 3.00M	3/07/2017	M17-Jl02345	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-
43 @ 2.00M	3/07/2017	M17-Jl02320	552701	2.00 M	clayey SAND		-	-	-	-	-	-	-	-	-
43 @ 3.00M	3/07/2017	M17-Jl02321	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-
50 @ 1.00M	3/07/2017	M17-Jl02363	552701	1.00 M	silty SAND		0.92	-	-	-	-	-	-	-	-
50 @ 2.50M	3/07/2017	M17-Jl02364	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	-
50 @ 3.00M	3/07/2017	M17-Jl02365	552701	3.00 M	sandy CLAY		-	-	-	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
58 @ 2.50M	3/07/2017	M17-Jl02369	552701	2.50 M	silty SAND		-	<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3

Statistical Summary	Iron (%)	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total
Number of Results	2	2	2	7	7	7	7	7	7
Minimum Concentration	0.92	<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
Maximum Concentration	1.2	<1	<0.75	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
Average Concentration				0.05	0.05	0.05	0.1	0.05	0.15
Median Concentration	1.06	0.5	0.375	0.05	0.05	0.05	0.1	0.05	0.15
Standard Deviation				0	0	0	0	0	0
Geometric Standard Deviation	1.2								

Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVic
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	
CSQG Residential/Parkland Use				5																									
4 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 2.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8
16 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 2.50M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<8
Average Concentration																													
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	4
Standard Deviation																													
Geometric Standard Deviation																													

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

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								Halogenated Benzenes								Halogenated Hydrocarbons					Halogenated Phenols						
							Other chlorinated hydrocarbons EPAVic	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	tetrachlorophenols
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	1	1
NEPM 2013 Table 1A(1) HILs Rec C Soil															**10**											**120**	
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space					**Human health**																						
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																											
0-1m																											
1-2m																											
2-4m																											
Csat																											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																											
0-1m																											
1-2m																											
2-4m																											
Csat																											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																											
0-1m																											
1-2m																											
2-4m																											
Csat																											
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space					Maintenance of (highly modified) ecosystems.																						
ANZECC 1992																											
US EPA ECO-SSL																											
CSQG Residential/Parkland Use																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
0-2m																											
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																											
0-2m																											
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**	**Sampling Rounds**																					
4 AT 1.50M	27/02/2017	M17-Fe28358	535906	1.50 M	silty CLAY	Round 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 2.00M	3/07/2017	M17-JI02381	552701	2.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5	<1	<1
13 @ 3.00M	3/07/2017	M17-JI02382	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 2.50M	3/07/2017	M17-JI02424	552701	2.50 M	clayey SAND		<7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1
16 @ 3.00M	3/07/2017	M17-JI02425	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.15M	3/07/2017	M17-JI02407	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.50M	3/07/2017	M17-JI02408	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.15M	3/07/2017	M17-JI02405	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.50M	3/07/2017	M17-JI02406	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 2.50M	3/07/2017	M17-JI02384	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5	<1	<1
22 @ 3.00M	3/07/2017	M17-JI02387	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.15M	3/07/2017	M17-JI02419	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.50M	3/07/2017	M17-JI02420	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 2.50M	3/07/2017	M17-JI02421	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5	<1	<1
28 @ 2.50M	3/07/2017	M17-JI02340	552701	2.50 M	clayey SAND	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 1.50M	3/07/2017	M17-JI02349	552701	1.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5	<1	<1
35 @ 2.00M	3/07/2017	M17-JI02350	552701	2.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.50M	3/07/2017	M17-JI02351	552701	2.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 3.00M	3/07/2017	M17-JI02352	552701	3.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.00M	3/07/2017	M17-JI02343	552701	2.00 M	sily SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.50M	3/07/2017	M17-JI02344	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 3.00M	3/07/2017	M17-JI02345	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 2.00M	3/07/2017	M17-JI02320	552701	2.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 3.00M	3/07/2017	M17-JI02321	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 1.00M	3/07/2017	M17-JI02363	552701	1.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	3/07/2017	M17-JI02364	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 3.00M	3/07/2017	M17-JI02365	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<0.5	<1	<1
58 @ 2.50M	3/07/2017	M17-JI02369	552701	2.50 M	silty SAND		<7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1
Statistical Summary																											
Number of Results							2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	7	7	7	7	7	7
Minimum Concentration							<7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1
Maximum Concentration							<7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1
Average Concentration																					0.5	0.5	0.25	0.25	0.25	0.5	0.5
Median Concentration							3.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.025	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.25	0.25	0.25	0.5	0.5
Standard Deviation																					0	0	0	0	0	0	0
Geometric Standard Deviation																											

	Herbicides	Inorganic	Inorganics							Lead	MAH					
	Dinoseb	% Clay	Cyanide Total	Fluoride	Moisture Content (dried @ 103°C)	Cation Exchange Capacity	Total Organic Carbon	pH (aqueous extract)	pH (Lab)	Lead	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Monocylic aromatic hydrocarbons EPAVic	Arsenic
	mg/kg	%	mg/kg	mg/kg	%			pH_Units	pH_Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	1	5	100	1			0.1	0.1	5	0.5	0.5	0.5	0.5		2
NEPM 2013 Table 1A(1) HILs Rec C Soil										**600**						**300**
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																
0-1m																
1-2m																
2-4m																
Csat																
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space				450						1100						100
ANZECC 1992								<6 and >8								
US EPA ECO-SSL																
CSQG Residential/Parkland Use																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																
0-2m																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																
0-2m																
Field ID																
4 AT 1.50M	-	-	-	-	10	-	-	-	-	10	-	-	-	-	-	5.4
13 @ 2.00M	<20	-	-	-	7	-	-	-	-	-	-	-	-	-	<0.6	-
13 @ 3.00M	-	-	-	-	4.8	-	-	-	-	5.6	-	-	-	-	-	<2
16 @ 2.50M	<20	-	<5	<100	3.7	-	-	7.2	-	26	<0.5	<0.5	<0.5	<0.5	<1.1	<2
16 @ 3.00M	-	-	-	-	6	-	-	-	-	15	-	-	-	-	-	<2
18 @ 0.15M	-	-	-	-	2.7	-	-	-	-	27	-	-	-	-	-	<2
18 @ 0.50M	-	-	-	-	1.1	-	-	-	-	<5	-	-	-	-	-	<2
19 @ 0.15M	-	-	-	-	5	-	-	-	-	<5	-	-	-	-	-	<2
19 @ 0.50M	-	-	-	-	3.7	-	-	-	-	<5	-	-	-	-	-	<2
21 @ 2.50M	<20	-	-	-	7.4	-	-	-	-	-	-	-	-	-	<0.6	-
22 @ 3.00M	-	-	-	-	17	-	-	-	-	6	-	-	-	-	-	2.7
23 @ 0.15M	-	-	-	-	4.7	-	-	-	-	5.7	-	-	-	-	-	<2
23 @ 0.50M	-	-	-	-	4.3	-	-	-	-	15	-	-	-	-	-	<2
23 @ 2.50M	<20	23	-	-	14	14	0.2	-	7.2	-	-	-	-	-	<0.6	-
28 @ 2.50M	-	-	-	-	9.3	-	-	-	-	<5	-	-	-	-	-	<2
35 @ 1.50M	<20	-	-	-	8.1	-	-	-	-	-	-	-	-	-	<0.6	-
35 @ 2.00M	-	-	-	-	5.6	-	-	-	-	<5	-	-	-	-	-	<2
35 @ 2.50M	-	-	-	-	6.5	-	-	-	-	<5	-	-	-	-	-	<2
35 @ 3.00M	-	-	-	-	12	-	-	-	-	<5	-	-	-	-	-	<2
36 @ 2.00M	-	-	-	-	8.1	-	-	-	-	<5	-	-	-	-	-	<2
36 @ 2.50M	-	-	-	-	11	-	-	-	-	<5	-	-	-	-	-	<2
36 @ 3.00M	-	-	-	-	15	-	-	-	-	9.2	-	-	-	-	-	<2
43 @ 2.00M	-	-	-	-	3	-	-	-	-	38	-	-	-	-	-	2.7
43 @ 3.00M	-	-	-	-	3	-	-	-	-	36	-	-	-	-	-	2.4
50 @ 1.00M	-	6.3	-	-	5	25	1.4	-	7.7	-	-	-	-	-	-	-
50 @ 2.50M	-	-	-	-	11	-	-	-	-	7.6	-	-	-	-	-	2.3
50 @ 3.00M	<20	-	-	-	9.1	-	-	-	-	-	-	-	-	-	<0.6	-
58 @ 2.50M	<20	-	<5	<100	5.7	-	-	7.2	-	<5	<0.5	<0.5	<0.5	<0.5	<1.1	<2
Statistical Summary																
Number of Results	7	2	2	2	28	2	2	2	2	22	2	2	2	2	7	22
Minimum Concentration	<20	6.3	<5	<100	1.1	14	0.2	7.2	7.2	<5	<0.5	<0.5	<0.5	<0.5	<0.6	<2
Maximum Concentration	<20	23	<5	<100	17	25	1.4	7.2	7.7	38	<0.5	<0.5	<0.5	<0.5	<1.1	5.4
Average Concentration	10				7.3					10					0.37	1.5
Median Concentration	10	14.65	2.5	50	6.25	19.5	0.8	7.2	7.45	5.65	0.25	0.25	0.25	0.25	0.3	1
Standard Deviation	0				4					11					0.12	1.1
Geometric Standard Deviation		2.5			1.8	1.5	4		1	2.7					1.3	1.6

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

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Assessment criteria – Metals and Organic

Criteria	Category	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Iron	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	TRH >C10-C16	TRH >C16-C34	TRH >C34-C40
		Metals												Organic		
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG
EQL		0.4	1	2	5	20	0.1	2	2	2	0.2	5	5	50	100	100
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health	**90**	**300**		**17000**		**80**		**1200**	**700**			**30000**			
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space	Human health													**3800**	**5300**	**7400**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay	Human health															
0-1m	Human health															
1-2m	Human health															
2-4m	Human health															
Csat	Human health															
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.			410	220				270	10			730			
ANZECC 1992	Maintenance of (highly modified) ecosystems.											50				
US EPA ECO-SSL	Maintenance of (highly modified) ecosystems.		130					6.6								
CSQG Residential/Parkland Use	Maintenance of (highly modified) ecosystems.	10														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	Maintenance of (highly modified) ecosystems.														1300	5600
0-2m	Maintenance of (highly modified) ecosystems.															
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	Maintenance of (highly modified) ecosystems.															
0-2m	Maintenance of (highly modified) ecosystems.														300	2800

Assessment criteria – Organochlorine Pesticides

Criteria	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05		0.05	0.1	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1
NEPM 2013 Table 1A(1) HILs Rec C Soil				**10**		**70**				**400**					**20**				**10**		**400**	**30**

Results – Metals and Organic

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Iron	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	TRH >C10-C16	TRH >C16-C34	TRH >C34-C40
4 AT 1.50M	27/02/2017	M17-Fe28358	535906	1.50 M	silty CLAY	Round 1	<0.4	-	27	<5	-	<0.1	<5	9.2	<2	<0.2	<10	9.6	-	-	-
13 @ 2.00M	3/07/2017	M17-JI02381	552701	2.00 M	silty SAND	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	<50	<100	<100
13 @ 3.00M	3/07/2017	M17-JI02382	552701	3.00 M	clayey SAND	Round 2	<0.4	-	7.2	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
16 @ 2.50M	3/07/2017	M17-JI02424	552701	2.50 M	clayey SAND	Round 2	<0.4	<1	6.4	8.7	-	<0.1	<5	<5	<2	<0.2	<10	20	<50	<100	<100
16 @ 3.00M	3/07/2017	M17-JI02425	552701	3.00 M	clayey SAND	Round 2	<0.4	-	15	<5	-	<0.1	<5	<5	<2	<0.2	<10	11	-	-	-
18 @ 0.15M	3/07/2017	M17-JI02407	552701	0.15 M	silty SAND	Round 2	<0.4	-	<5	<5	-	0.2	<5	<5	<2	<0.2	<10	12	-	-	-
18 @ 0.50M	3/07/2017	M17-JI02408	552701	0.50 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
19 @ 0.15M	3/07/2017	M17-JI02405	552701	0.15 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
19 @ 0.50M	3/07/2017	M17-JI02406	552701	0.50 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
21 @ 2.50M	3/07/2017	M17-JI02384	552701	2.50 M	clayey SAND	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	<50	<100	<100
22 @ 3.00M	3/07/2017	M17-JI02387	552701	3.00 M	clayey SAND	Round 2	<0.4	-	15	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
23 @ 0.15M	3/07/2017	M17-JI02419	552701	0.15 M	silty SAND	Round 2	<0.4	-	<5	5.3	-	<0.1	<5	5.6	<2	<0.2	<10	14	-	-	-
23 @ 0.50M	3/07/2017	M17-JI02420	552701	0.50 M	silty SAND	Round 2	<0.4	-	<5	6.6	-	<0.1	<5	5.9	<2	<0.2	<10	18	-	-	-
23 @ 2.50M	3/07/2017	M17-JI02421	552701	2.50 M	sandy CLAY	Round 2	-	-	-	-	12,000	-	-	-	-	-	-	-	<50	<100	<100
28 @ 2.50M	3/07/2017	M17-JI02340	552701	2.50 M	clayey SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
35 @ 1.50M	3/07/2017	M17-JI02349	552701	1.50 M	silty SAND	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	<50	<100	<100
35 @ 2.00M	3/07/2017	M17-JI02350	552701	2.00 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
35 @ 2.50M	3/07/2017	M17-JI02351	552701	2.50 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
35 @ 3.00M	3/07/2017	M17-JI02352	552701	3.00 M	silty SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	6.5	-	-	-
36 @ 2.00M	3/07/2017	M17-JI02343	552701	2.00 M	sily SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	9.9	-	-	-
36 @ 2.50M	3/07/2017	M17-JI02344	552701	2.50 M	clayey SAND	Round 2	<0.4	-	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	<5	-	-	-
36 @ 3.00M	3/07/2017	M17-JI02345	552701	3.00 M	sandy CLAY	Round 2	<0.4	-	19	<5	-	<0.1	<5	6.5	<2	<0.2	<10	6.9	-	-	-
43 @ 2.00M	3/07/2017	M17-JI02320	552701	2.00 M	clayey SAND	Round 2	0.4	-	6.3	13	-	<0.1	<5	16	<2	<0.2	<10	450	-	-	-
43 @ 3.00M	3/07/2017	M17-JI02321	552701	3.00 M	sandy CLAY	Round 2	<0.4	-	<5	17	-	<0.1	<5	7.5	<2	<0.2	<10	200	-	-	-
50 @ 1.00M	3/07/2017	M17-JI02363	552701	1.00 M	silty SAND	Round 2	-	-	-	-	9200	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	3/07/2017	M17-JI02364	552701	2.50 M	sandy CLAY	Round 2	<0.4	-	8.5	<5	-	<0.1	<5	<5	<2	<0.2	<10	5.8	-	-	-
50 @ 3.00M	3/07/2017	M17-JI02365	552701	3.00 M	sandy CLAY	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	<50	<100	<100
58 @ 2.50M	3/07/2017	M17-JI02369	552701	2.50 M	silty SAND	Round 2	<0.4	<1	<5	<5	-	<0.1	<5	<5	<2	<0.2	<10	9.9	<50	<100	<100

Results – Organochlorine Pesticides

Field ID	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
4 AT 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 2.50M	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
16 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.15M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 1.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 2.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 1.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 3.00M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58 @ 2.50M	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1

Statistical Summary

Statistic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Iron	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	TRH >C10-C16	TRH >C16-C34	TRH >C34-C40
Number of Results	22	2	22	22	2	22	22	22	22	22	22	22	7	7	7
Minimum Concentration	<0.4	<1	<5	<5	9200	<0.1	<5	<5	<2	<0.2	<10	<5	<50	<100	<100
Maximum Concentration	0.4	<1	27	17	12000	0.2	<5	16	<2	<0.2	<10	450	<50	<100	<100
Average Concentration	0.21		6.3	4.2		0.057	2.5	4.1	1	0.1	5	36	25	50	50
Median Concentration	0.2	0.5	2.5	2.5	10600	0.05	2.5	2.5	1	0.1	5	6.7	25	50	50
Standard Deviation	0.043		6.7	3.9		0.032	0	3.3	0	0	0	101	0	0	0
Geometric Standard Deviation	1.2		2.3	1.8	1.2	1.3		1.7				4.1			

Statistic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Minimum Concentration	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
Maximum Concentration	<0.05	<0.05	<0.05	<0.1	<0.05	<0.1	<0.05	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
Average Concentration																						
Median Concentration	0.025	0.025	0.025	0.05	0.025	0.05	0.025	0.025	0.025	0.075	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.5
Standard Deviation																						
Geometric Standard Deviation																						

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

							PAH			PAH/Phenols																								Phenolics			Polychlorinated Biph					
							Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *	2,4-dimethylphenol	2,4-dinitrophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4,6-Dinitro-2-methylphenol	4-chloro-3-methylphenol	4-nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Ben(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Benzo(b+j)fluoranthene	Dibenz(a,h)anthracene	Carcinogenic PAHs IARC (Course Soil Calc)	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Pyrene	4,6-Dinitro-o-cyclohexyl phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248
							MG/KG	MG/KG	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.5	0.5	0.5	0.5	5	0.2	1	0.4	5	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	20	1	20	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(1) HILs Rec C Soil									**3**																								**300**		**40000**								
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																																**1900**										
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																																										
0-1m																																**NL**										
1-2m																																**NL**										
2-4m																																**NL**										
Csat																																**9**										
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																																										
0-1m																																**NL**										
1-2m																																**NL**										
2-4m																																**NL**										
Csat																																**10**										
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																																										
0-1m																																**NL**										
1-2m																																**NL**										
2-4m																																**NL**										
Csat																																**10**										
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space																																**170**										
ANZECC 1992																																										
US EPA ECO-SSL																																	**18**									
CSQG Residential/Parkland Use																																			**3.8**							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																																										
0-2m																								0.7																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																																										
0-2m																								0.7																			

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds																																						
4 AT 1.50M	27/02/2017	M17-Fe28358	535906	1.50 M	silty CLAY	Round 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 2.00M	3/07/2017	M17-JI02381	552701	2.00 M	silty SAND		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	-	-	-	-	-
13 @ 3.00M	3/07/2017	M17-JI02382	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 2.50M	3/07/2017	M17-JI02424	552701	2.50 M	clayey SAND		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1
16 @ 3.00M	3/07/2017	M17-JI02425	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.15M	3/07/2017	M17-JI02407	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.50M	3/07/2017	M17-JI02408	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.15M	3/07/2017	M17-JI02405	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.50M	3/07/2017	M17-JI02406	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 2.50M	3/07/2017	M17-JI02384	552701	2.50 M	clayey SAND		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	-	-	-	-	-
22 @ 3.00M	3/07/2017	M17-JI02387	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.15M	3/07/2017	M17-JI02419	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.50M	3/07/2017	M17-JI02420	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 2.50M	3/07/2017	M17-JI02421	552701	2.50 M	sandy CLAY		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	-	-	-	-	-
28 @ 2.50M	3/07/2017	M17-JI02340	552701	2.50 M	clayey SAND	Round 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 1.50M	3/07/2017	M17-JI02349	552701	1.50 M	silty SAND		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	-	-	-	-	-
35 @ 2.00M	3/07/2017	M17-JI02350	552701	2.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.50M	3/07/2017	M17-JI02351	552701	2.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 3.00M	3/07/2017	M17-JI02352	552701	3.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.00M	3/07/2017	M17-JI02343	552701	2.00 M	sily SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.50M	3/07/2017	M17-JI02344	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 3.00M	3/07/2017	M17-JI02345	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 2.00M	3/07/2017	M17-JI02320	552701	2.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 3.00M	3/07/2017	M17-JI02321	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 1.00M	3/07/2017	M17-JI02363	552701	1.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	3/07/2017	M17-JI02364	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 3.00M	3/07/2017	M17-JI02365	552701	3.00 M	sandy CLAY		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	-	-	-	-	-
58 @ 2.50M	3/07/2017	M17-JI02369	552701	2.50 M	silty SAND		<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1
Statistical Summary																																											
Number of Results							7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2	2	2	2	2
Minimum Concentration							<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration							<0.5	0.6	1.2	<0.5	<5	<0.2	<1	<0.4	<5	<1	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<1	<20	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration							0.25	0.6	1.2	0.25	2.5	0.1	0.5	0.2	2.5	0.5	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	10	0.5	10					
Median Concentration							0.25	0.6	1.2	0.25	2.5	0.1	0.5	0.2	2.5	0.5	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.107	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	10	0.5	10	0.05	0.05	0.05	0.05	0.05
Standard Deviation							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Geometric Standard Deviation																																											

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

Geoaquitards Environmental

		enyls			Solvents					TPH								VOCs
		Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	F1 minus BTEX (C6-C10)	F2-Napth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	20	50	20	20	50	50	50	20	
NEPM 2013 Table 1A(1) HILs Rec C Soil	Human health			**1**														
CRC Care Table 4 Soil Direct Contact - HSL-C Recreational / Open Space																	**5100**	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																		
0-1m										**NL**	**NL**							
1-2m										**NL**	**NL**							
2-4m										**NL**	**NL**							
Csat										**950**	**560**							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Silt																		
0-1m										**NL**	**NL**							
1-2m										**NL**	**NL**							
2-4m										**NL**	**NL**							
Csat										**910**	**570**							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Clay																		
0-1m										**NL**	**NL**							
1-2m										**NL**	**NL**							
2-4m										**NL**	**NL**							
Csat										**850**	**560**							
NEPM 2013 Ecological Investigation Level Urban Residence/Public Open Space	Maintenance of (highly modified) ecosystems.																	
ANZECC 1992																		
US EPA ECO-SSL																		
CSQG Residential/Parkland Use				1.3														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil										180	120							
0-2m																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																		
0-2m										180	120							

Field ID	Sampled Date	SampleCode	Lab Report Number	Sampling Depth	Lithological Description	Sampling Rounds	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	F1 minus BTEX (C6-C10)	F2-Napth (C10-C16)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C6-C10	Trihalomethanes
4 AT 1.50M	27/02/2017	M17-Fe28358	535906	1.50 M	silty CLAY	Round 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 @ 2.00M	3/07/2017	M17-Jl02381	552701	2.00 M	silty SAND	Round 2	-	-	-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
13 @ 3.00M	3/07/2017	M17-Jl02382	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 @ 2.50M	3/07/2017	M17-Jl02424	552701	2.50 M	clayey SAND		<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
16 @ 3.00M	3/07/2017	M17-Jl02425	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.15M	3/07/2017	M17-Jl02407	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 @ 0.50M	3/07/2017	M17-Jl02408	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.15M	3/07/2017	M17-Jl02405	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 @ 0.50M	3/07/2017	M17-Jl02406	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 @ 2.50M	3/07/2017	M17-Jl02384	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
22 @ 3.00M	3/07/2017	M17-Jl02387	552701	3.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.15M	3/07/2017	M17-Jl02419	552701	0.15 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 0.50M	3/07/2017	M17-Jl02420	552701	0.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 @ 2.50M	3/07/2017	M17-Jl02421	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
28 @ 2.50M	3/07/2017	M17-Jl02340	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 1.50M	3/07/2017	M17-Jl02349	552701	1.50 M	silty SAND		-	-	-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
35 @ 2.00M	3/07/2017	M17-Jl02350	552701	2.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 2.50M	3/07/2017	M17-Jl02351	552701	2.50 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35 @ 3.00M	3/07/2017	M17-Jl02352	552701	3.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.00M	3/07/2017	M17-Jl02343	552701	2.00 M	sily SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 2.50M	3/07/2017	M17-Jl02344	552701	2.50 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36 @ 3.00M	3/07/2017	M17-Jl02345	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 2.00M	3/07/2017	M17-Jl02320	552701	2.00 M	clayey SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 @ 3.00M	3/07/2017	M17-Jl02321	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 1.00M	3/07/2017	M17-Jl02363	552701	1.00 M	silty SAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 2.50M	3/07/2017	M17-Jl02364	552701	2.50 M	sandy CLAY		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 @ 3.00M	3/07/2017	M17-Jl02365	552701	3.00 M	sandy CLAY		-	-	-	-	-	-	-	-	<20	<50	<20	<20	<50	<50	<50	<20	-
58 @ 2.50M	3/07/2017	M17-Jl02369	552701	2.50 M	silty SAND		<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
Statistical Summary																							
Number of Results							2	2	2	2	2	2	2	2	7	7	7	7	7	7	7	7	2
Minimum Concentration							<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
Maximum Concentration							<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<50	<20	<20	<50	<50	<50	<20	<2
Average Concentration															10	25	10	10	25	25	25	10	
Median Concentration							0.05	0.05	0.05	0.25	0.25	0.25	0.25	0.25	10	25	10	10	25	25	25	10	1
Standard Deviation															0	0	0	0	0	0	0	0	
Geometric Standard Deviation																							

Note:
** Soils With a pH value of 4 or less or a pH of 9 or more are considered to be Prescribed Industrial Wastes (PIWs)

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.118/07/2017 10:56:09 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	225	Number of Distinct Observations	97
		Number of Missing Observations	1
Minimum	5	Mean	95.29
Maximum	7200	Median	43
SD	484.8	Std. Error of Mean	32.32
Coefficient of Variation	5.087	Skewness	14.22

Normal GOF Test

Shapiro Wilk Test Statistic	0.138	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.426	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0595	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	148.7	95% Adjusted-CLT UCL (Chen-1995)	181.2
		95% Modified-t UCL (Johnson-1978)	153.8

Gamma GOF Test

A-D Test Statistic	4.444E+28	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.796	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.222	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.0632	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.749	k star (bias corrected MLE)	0.742
Theta hat (MLE)	127.3	Theta star (bias corrected MLE)	128.5
nu hat (MLE)	337	nu star (bias corrected)	333.8
MLE Mean (bias corrected)	95.29	MLE Sd (bias corrected)	110.6
		Approximate Chi Square Value (0.05)	292.5
Adjusted Level of Significance	0.0489	Adjusted Chi Square Value	292.2

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	108.8	95% Adjusted Gamma UCL (use when n<50)	108.9

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.948	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	2.3384E-8	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.0906	**Lilliefors Lognormal GOF Test**

55				5% Lilliefors Critical Value		0.0595		Data Not Lognormal at 5% Significance Level				
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59				Minimum of Logged Data		1.609		Mean of logged Data				3.757
60				Maximum of Logged Data		8.882		SD of logged Data				0.928
61												
62	**Assuming Lognormal Distribution**											
63				95% H-UCL		75		90% Chebyshev (MVUE) UCL				80.17
64				95% Chebyshev (MVUE) UCL		86.72		97.5% Chebyshev (MVUE) UCL				95.82
65				99% Chebyshev (MVUE) UCL		113.7						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71				95% CLT UCL		148.4		95% Jackknife UCL				148.7
72				95% Standard Bootstrap UCL		148.6		95% Bootstrap-t UCL				361.3
73				95% Hall's Bootstrap UCL		335.3		95% Percentile Bootstrap UCL				158.1
74				95% BCA Bootstrap UCL		193.8						
75				90% Chebyshev(Mean, Sd) UCL		192.2		95% Chebyshev(Mean, Sd) UCL				236.2
76				97.5% Chebyshev(Mean, Sd) UCL		297.1		99% Chebyshev(Mean, Sd) UCL				416.8
77												
78	**Suggested UCL to Use**											
79				95% Chebyshev (Mean, Sd) UCL		236.2						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	**Arsenic**											
88												
89	**General Statistics**											
90				Total Number of Observations		225		Number of Distinct Observations				78
91								Number of Missing Observations				1
92				Minimum		2		Mean				7.019
93				Maximum		110		Median				4.7
94				SD		11.01		Std. Error of Mean				0.734
95				Coefficient of Variation		1.569		Skewness				7.564
96												
97	**Normal GOF Test**											
98				Shapiro Wilk Test Statistic		0.39		**Shapiro Wilk GOF Test**				
99				5% Shapiro Wilk P Value		0		Data Not Normal at 5% Significance Level				
100				Lilliefors Test Statistic		0.324		**Lilliefors GOF Test**				
101				5% Lilliefors Critical Value		0.0595		Data Not Normal at 5% Significance Level				
102	**Data Not Normal at 5% Significance Level**											
103												
104	**Assuming Normal Distribution**											
105	**95% Normal UCL**							**95% UCLs (Adjusted for Skewness)**				
106				95% Student's-t UCL		8.231		95% Adjusted-CLT UCL (Chen-1995)				8.622
107								95% Modified-t UCL (Johnson-1978)				8.293
108												

109	**Gamma GOF Test**											
110	A-D Test Statistic				8.937	**Anderson-Darling Gamma GOF Test**						
111	5% A-D Critical Value				0.771	Data Not Gamma Distributed at 5% Significance Level						
112	K-S Test Statistic				0.158	**Kolmogorov-Smirnov Gamma GOF Test**						
113	5% K-S Critical Value				0.0619	Data Not Gamma Distributed at 5% Significance Level						
114	**Data Not Gamma Distributed at 5% Significance Level**											
115												
116	**Gamma Statistics**											
117	k hat (MLE)				1.544	k star (bias corrected MLE)						1.526
118	Theta hat (MLE)				4.546	Theta star (bias corrected MLE)						4.598
119	nu hat (MLE)				694.8	nu star (bias corrected)						686.9
120	MLE Mean (bias corrected)				7.019	MLE Sd (bias corrected)						5.681
121						Approximate Chi Square Value (0.05)						627.1
122	Adjusted Level of Significance				0.0489	Adjusted Chi Square Value						626.7
123												
124	**Assuming Gamma Distribution**											
125	95% Approximate Gamma UCL (use when n>=50))				7.688	95% Adjusted Gamma UCL (use when n<50)						7.693
126												
127	**Lognormal GOF Test**											
128	Shapiro Wilk Test Statistic				0.91	**Shapiro Wilk Lognormal GOF Test**						
129	5% Shapiro Wilk P Value				0	Data Not Lognormal at 5% Significance Level						
130	Lilliefors Test Statistic				0.109	**Lilliefors Lognormal GOF Test**						
131	5% Lilliefors Critical Value				0.0595	Data Not Lognormal at 5% Significance Level						
132	**Data Not Lognormal at 5% Significance Level**											
133												
134	**Lognormal Statistics**											
135	Minimum of Logged Data				0.693	Mean of logged Data						1.591
136	Maximum of Logged Data				4.7	SD of logged Data						0.729
137												
138	**Assuming Lognormal Distribution**											
139	95% H-UCL				7.038	90% Chebyshev (MVUE) UCL						7.437
140	95% Chebyshev (MVUE) UCL				7.909	97.5% Chebyshev (MVUE) UCL						8.566
141	99% Chebyshev (MVUE) UCL				9.854							
142												
143	**Nonparametric Distribution Free UCL Statistics**											
144	**Data do not follow a Discernible Distribution (0.05)**											
145												
146	**Nonparametric Distribution Free UCLs**											
147	95% CLT UCL				8.226	95% Jackknife UCL						8.231
148	95% Standard Bootstrap UCL				8.228	95% Bootstrap-t UCL						9.323
149	95% Hall's Bootstrap UCL				14.57	95% Percentile Bootstrap UCL						8.271
150	95% BCA Bootstrap UCL				8.73							
151	90% Chebyshev(Mean, Sd) UCL				9.221	95% Chebyshev(Mean, Sd) UCL						10.22
152	97.5% Chebyshev(Mean, Sd) UCL				11.6	99% Chebyshev(Mean, Sd) UCL						14.32
153												
154	**Suggested UCL to Use**											
155	95% Chebyshev (Mean, Sd) UCL				10.22							
156												
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	Recommendations are based upon data size, data distribution, and skewness.											
159	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
160	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
161												
162												

163	**Cadmium**										
164											
165	**General Statistics**										
166				Total Number of Observations	225			Number of Distinct Observations	13		
167								Number of Missing Observations	1		
168				Minimum	0.4			Mean	0.539		
169				Maximum	14			Median	0.4		
170				SD	0.954			Std. Error of Mean	0.0636		
171				Coefficient of Variation	1.769			Skewness	12.84		
172											
173	**Normal GOF Test**										
174				Shapiro Wilk Test Statistic	0.16			**Shapiro Wilk GOF Test**			
175				5% Shapiro Wilk P Value	0			Data Not Normal at 5% Significance Level			
176				Lilliefors Test Statistic	0.442			**Lilliefors GOF Test**			
177				5% Lilliefors Critical Value	0.0595			Data Not Normal at 5% Significance Level			
178	**Data Not Normal at 5% Significance Level**										
179											
180	**Assuming Normal Distribution**										
181				**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**			
182				95% Student's-t UCL	0.644			95% Adjusted-CLT UCL (Chen-1995)	0.702		
183								95% Modified-t UCL (Johnson-1978)	0.653		
184											
185	**Gamma GOF Test**										
186				A-D Test Statistic	4.444E+28			**Anderson-Darling Gamma GOF Test**			
187				5% A-D Critical Value	0.761			Data Not Gamma Distributed at 5% Significance Level			
188				K-S Test Statistic	0.482			**Kolmogorov-Smirnov Gamma GOF Test**			
189				5% K-S Critical Value	0.0612			Data Not Gamma Distributed at 5% Significance Level			
190	**Data Not Gamma Distributed at 5% Significance Level**										
191											
192	**Gamma Statistics**										
193				k hat (MLE)	2.884			k star (bias corrected MLE)	2.848		
194				Theta hat (MLE)	0.187			Theta star (bias corrected MLE)	0.189		
195				nu hat (MLE)	1298			nu star (bias corrected)	1282		
196				MLE Mean (bias corrected)	0.539			MLE Sd (bias corrected)	0.319		
197								Approximate Chi Square Value (0.05)	1200		
198				Adjusted Level of Significance	0.0489			Adjusted Chi Square Value	1199		
199											
200	**Assuming Gamma Distribution**										
201				95% Approximate Gamma UCL (use when n>=50))	0.576			95% Adjusted Gamma UCL (use when n<50)	0.576		
202											
203	**Lognormal GOF Test**										
204				Shapiro Wilk Test Statistic	0.356			**Shapiro Wilk Lognormal GOF Test**			
205				5% Shapiro Wilk P Value	0			Data Not Lognormal at 5% Significance Level			
206				Lilliefors Test Statistic	0.486			**Lilliefors Lognormal GOF Test**			
207				5% Lilliefors Critical Value	0.0595			Data Not Lognormal at 5% Significance Level			
208	**Data Not Lognormal at 5% Significance Level**										
209											
210	**Lognormal Statistics**										
211				Minimum of Logged Data	-0.916			Mean of logged Data	-0.801		
212				Maximum of Logged Data	2.639			SD of logged Data	0.395		
213											
214	**Assuming Lognormal Distribution**										
215				95% H-UCL	0.508			90% Chebyshev (MVUE) UCL	0.525		
216				95% Chebyshev (MVUE) UCL	0.543			97.5% Chebyshev (MVUE) UCL	0.568		

217				99% Chebyshev (MVUE) UCL		0.617						
218												
219	**Nonparametric Distribution Free UCL Statistics**											
220	**Data do not follow a Discernible Distribution (0.05)**											
221												
222	**Nonparametric Distribution Free UCLs**											
223				95% CLT UCL		0.644			95% Jackknife UCL			0.644
224				95% Standard Bootstrap UCL		0.641			95% Bootstrap-t UCL			0.879
225				95% Hall's Bootstrap UCL		0.994			95% Percentile Bootstrap UCL			0.661
226				95% BCA Bootstrap UCL		0.745						
227				90% Chebyshev(Mean, Sd) UCL		0.73			95% Chebyshev(Mean, Sd) UCL			0.816
228				97.5% Chebyshev(Mean, Sd) UCL		0.936			99% Chebyshev(Mean, Sd) UCL			1.172
229												
230	**Suggested UCL to Use**											
231				95% Student's-t UCL		0.644			or 95% Modified-t UCL			0.653
232												
233	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
234	Recommendations are based upon data size, data distribution, and skewness.											
235	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
236	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
237												
238												
239	**Copper**											
240												
241	**General Statistics**											
242				Total Number of Observations		225			Number of Distinct Observations			74
243									Number of Missing Observations			1
244				Minimum		5			Mean			774.6
245				Maximum		170000			Median			12
246				SD		11332			Std. Error of Mean			755.5
247				Coefficient of Variation		14.63			Skewness			15
248												
249	**Normal GOF Test**											
250				Shapiro Wilk Test Statistic		0.0677			**Shapiro Wilk GOF Test**			
251				5% Shapiro Wilk P Value		0			Data Not Normal at 5% Significance Level			
252				Lilliefors Test Statistic		0.514			**Lilliefors GOF Test**			
253				5% Lilliefors Critical Value		0.0595			Data Not Normal at 5% Significance Level			
254	**Data Not Normal at 5% Significance Level**											
255												
256	**Assuming Normal Distribution**											
257	**95% Normal UCL**								**95% UCLs (Adjusted for Skewness)**			
258				95% Student's-t UCL		2022			95% Adjusted-CLT UCL (Chen-1995)			2824
259									95% Modified-t UCL (Johnson-1978)			2148
260												
261	**Gamma GOF Test**											
262				A-D Test Statistic		4.444E+28			**Anderson-Darling Gamma GOF Test**			
263				5% A-D Critical Value		0.935			Data Not Gamma Distributed at 5% Significance Level			
264				K-S Test Statistic		0.471			**Kolmogorov-Smirnov Gamma GOF Test**			
265				5% K-S Critical Value		0.0679			Data Not Gamma Distributed at 5% Significance Level			
266	**Data Not Gamma Distributed at 5% Significance Level**											
267												
268	**Gamma Statistics**											
269				k hat (MLE)		0.185			k star (bias corrected MLE)			0.185
270				Theta hat (MLE)		4193			Theta star (bias corrected MLE)			4182

271					nu hat (MLE)	83.13				nu star (bias corrected)		83.35
272					MLE Mean (bias corrected)	774.6				MLE Sd (bias corrected)		1800
273										Approximate Chi Square Value (0.05)		63.31
274					Adjusted Level of Significance	0.0489				Adjusted Chi Square Value		63.2
275												
276					**Assuming Gamma Distribution**							
277					95% Approximate Gamma UCL (use when n>=50))	1020				95% Adjusted Gamma UCL (use when n<50)		1022
278												
279					**Lognormal GOF Test**							
280					Shapiro Wilk Test Statistic	0.766				**Shapiro Wilk Lognormal GOF Test**		
281					5% Shapiro Wilk P Value	0				Data Not Lognormal at 5% Significance Level		
282					Lilliefors Test Statistic	0.155				**Lilliefors Lognormal GOF Test**		
283					5% Lilliefors Critical Value	0.0595				Data Not Lognormal at 5% Significance Level		
284					**Data Not Lognormal at 5% Significance Level**							
285												
286					**Lognormal Statistics**							
287					Minimum of Logged Data	1.609				Mean of logged Data		2.619
288					Maximum of Logged Data	12.04				SD of logged Data		0.993
289												
290					**Assuming Lognormal Distribution**							
291					95% H-UCL	25.92				90% Chebyshev (MVUE) UCL		27.8
292					95% Chebyshev (MVUE) UCL	30.24				97.5% Chebyshev (MVUE) UCL		33.62
293					99% Chebyshev (MVUE) UCL	40.28						
294												
295					**Nonparametric Distribution Free UCL Statistics**							
296					**Data do not follow a Discernible Distribution (0.05)**							
297												
298					**Nonparametric Distribution Free UCLs**							
299					95% CLT UCL	2017				95% Jackknife UCL		2022
300					95% Standard Bootstrap UCL	2028				95% Bootstrap-t UCL		525443
301					95% Hall's Bootstrap UCL	208730				95% Percentile Bootstrap UCL		2285
302					95% BCA Bootstrap UCL	3042						
303					90% Chebyshev(Mean, Sd) UCL	3041				95% Chebyshev(Mean, Sd) UCL		4068
304					97.5% Chebyshev(Mean, Sd) UCL	5493				99% Chebyshev(Mean, Sd) UCL		8291
305												
306					**Suggested UCL to Use**							
307					95% Chebyshev (Mean, Sd) UCL	4068						
308												
309	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
310	Recommendations are based upon data size, data distribution, and skewness.											
311	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
312	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
313												
314												
315	**Nickel**											
316												
317					**General Statistics**							
318					Total Number of Observations	225				Number of Distinct Observations		60
319										Number of Missing Observations		1
320					Minimum	2				Mean		12.72
321					Maximum	300				Median		9.6
322					SD	20.51				Std. Error of Mean		1.367
323					Coefficient of Variation	1.612				Skewness		12.42
324												

325	**Normal GOF Test**											
326				Shapiro Wilk Test Statistic		0.296	**Shapiro Wilk GOF Test**					
327				5% Shapiro Wilk P Value		0	Data Not Normal at 5% Significance Level					
328				Lilliefors Test Statistic		0.349	**Lilliefors GOF Test**					
329				5% Lilliefors Critical Value		0.0595	Data Not Normal at 5% Significance Level					
330	**Data Not Normal at 5% Significance Level**											
331												
332	**Assuming Normal Distribution**											
333	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
334				95% Student's-t UCL		14.98	95% Adjusted-CLT UCL (Chen-1995)					16.18
335							95% Modified-t UCL (Johnson-1978)					15.17
336												
337	**Gamma GOF Test**											
338				A-D Test Statistic		4.444E+28	**Anderson-Darling Gamma GOF Test**					
339				5% A-D Critical Value		0.766	Data Not Gamma Distributed at 5% Significance Level					
340				K-S Test Statistic		0.173	**Kolmogorov-Smirnov Gamma GOF Test**					
341				5% K-S Critical Value		0.0615	Data Not Gamma Distributed at 5% Significance Level					
342	**Data Not Gamma Distributed at 5% Significance Level**											
343												
344	**Gamma Statistics**											
345				k hat (MLE)		2.096	k star (bias corrected MLE)					2.071
346				Theta hat (MLE)		6.069	Theta star (bias corrected MLE)					6.143
347				nu hat (MLE)		943.3	nu star (bias corrected)					932.1
348				MLE Mean (bias corrected)		12.72	MLE Sd (bias corrected)					8.84
349							Approximate Chi Square Value (0.05)					862.2
350				Adjusted Level of Significance		0.0489	Adjusted Chi Square Value					861.8
351												
352	**Assuming Gamma Distribution**											
353				95% Approximate Gamma UCL (use when n>=50))		13.75	95% Adjusted Gamma UCL (use when n<50)					13.76
354												
355	**Lognormal GOF Test**											
356				Shapiro Wilk Test Statistic		0.923	**Shapiro Wilk Lognormal GOF Test**					
357				5% Shapiro Wilk P Value		0	Data Not Lognormal at 5% Significance Level					
358				Lilliefors Test Statistic		0.13	**Lilliefors Lognormal GOF Test**					
359				5% Lilliefors Critical Value		0.0595	Data Not Lognormal at 5% Significance Level					
360	**Data Not Lognormal at 5% Significance Level**											
361												
362	**Lognormal Statistics**											
363				Minimum of Logged Data		0.693	Mean of logged Data					2.286
364				Maximum of Logged Data		5.704	SD of logged Data					0.611
365												
366	**Assuming Lognormal Distribution**											
367				95% H-UCL		12.8	90% Chebyshev (MVUE) UCL					13.42
368				95% Chebyshev (MVUE) UCL		14.13	97.5% Chebyshev (MVUE) UCL					15.12
369				99% Chebyshev (MVUE) UCL		17.06						
370												
371	**Nonparametric Distribution Free UCL Statistics**											
372	**Data do not follow a Discernible Distribution (0.05)**											
373												
374	**Nonparametric Distribution Free UCLs**											
375				95% CLT UCL		14.97	95% Jackknife UCL					14.98
376				95% Standard Bootstrap UCL		14.96	95% Bootstrap-t UCL					18.41
377				95% Hall's Bootstrap UCL		23.94	95% Percentile Bootstrap UCL					15.42
378				95% BCA Bootstrap UCL		17.34						

379	90% Chebyshev(Mean, Sd) UCL					16.82	95% Chebyshev(Mean, Sd) UCL					18.68
380	97.5% Chebyshev(Mean, Sd) UCL					21.26	99% Chebyshev(Mean, Sd) UCL					26.33
381												
382	**Suggested UCL to Use**											
383	95% Chebyshev (Mean, Sd) UCL					18.68						
384												
385	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
386	Recommendations are based upon data size, data distribution, and skewness.											
387	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
388	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
389												
390												
391	**Tin**											
392												
393	**General Statistics**											
394	Total Number of Observations					217	Number of Distinct Observations					32
395							Number of Missing Observations					9
396	Minimum					5	Mean					25.2
397	Maximum					790	Median					10
398	SD					73.99	Std. Error of Mean					5.023
399	Coefficient of Variation					2.936	Skewness					7.344
400												
401	**Normal GOF Test**											
402	Shapiro Wilk Test Statistic					0.247	**Shapiro Wilk GOF Test**					
403	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
404	Lilliefors Test Statistic					0.42	**Lilliefors GOF Test**					
405	5% Lilliefors Critical Value					0.0606	Data Not Normal at 5% Significance Level					
406	**Data Not Normal at 5% Significance Level**											
407												
408	**Assuming Normal Distribution**											
409	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
410	95% Student's-t UCL					33.5	95% Adjusted-CLT UCL (Chen-1995)					36.14
411							95% Modified-t UCL (Johnson-1978)					33.92
412												
413	**Gamma GOF Test**											
414	A-D Test Statistic					58.29	**Anderson-Darling Gamma GOF Test**					
415	5% A-D Critical Value					0.791	Data Not Gamma Distributed at 5% Significance Level					
416	K-S Test Statistic					0.448	**Kolmogorov-Smirnov Gamma GOF Test**					
417	5% K-S Critical Value					0.0639	Data Not Gamma Distributed at 5% Significance Level					
418	**Data Not Gamma Distributed at 5% Significance Level**											
419												
420	**Gamma Statistics**											
421	k hat (MLE)					0.863	k star (bias corrected MLE)					0.854
422	Theta hat (MLE)					29.2	Theta star (bias corrected MLE)					29.5
423	nu hat (MLE)					374.7	nu star (bias corrected)					370.8
424	MLE Mean (bias corrected)					25.2	MLE Sd (bias corrected)					27.27
425							Approximate Chi Square Value (0.05)					327.2
426	Adjusted Level of Significance					0.0489	Adjusted Chi Square Value					326.9
427												
428	**Assuming Gamma Distribution**											
429	95% Approximate Gamma UCL (use when n>=50))					28.56	95% Adjusted Gamma UCL (use when n<50)					28.59
430												
431	**Lognormal GOF Test**											
432	Shapiro Wilk Test Statistic					0.486	**Shapiro Wilk Lognormal GOF Test**					

433				5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level						
434				Lilliefors Test Statistic	0.433	**Lilliefors Lognormal GOF Test**						
435				5% Lilliefors Critical Value	0.0606	Data Not Lognormal at 5% Significance Level						
436	**Data Not Lognormal at 5% Significance Level**											
437												
438	**Lognormal Statistics**											
439				Minimum of Logged Data	1.609	Mean of logged Data	2.546					
440				Maximum of Logged Data	6.672	SD of logged Data	0.755					
441												
442	**Assuming Lognormal Distribution**											
443				95% H-UCL	18.76	90% Chebyshev (MVUE) UCL	19.87					
444				95% Chebyshev (MVUE) UCL	21.2	97.5% Chebyshev (MVUE) UCL	23.04					
445				99% Chebyshev (MVUE) UCL	26.67							
446												
447	**Nonparametric Distribution Free UCL Statistics**											
448	**Data do not follow a Discernible Distribution (0.05)**											
449												
450	**Nonparametric Distribution Free UCLs**											
451				95% CLT UCL	33.46	95% Jackknife UCL	33.5					
452				95% Standard Bootstrap UCL	33.63	95% Bootstrap-t UCL	40.37					
453				95% Hall's Bootstrap UCL	39.53	95% Percentile Bootstrap UCL	33.99					
454				95% BCA Bootstrap UCL	37.05							
455				90% Chebyshev(Mean, Sd) UCL	40.27	95% Chebyshev(Mean, Sd) UCL	47.1					
456				97.5% Chebyshev(Mean, Sd) UCL	56.57	99% Chebyshev(Mean, Sd) UCL	75.18					
457												
458	**Suggested UCL to Use**											
459				95% Chebyshev (Mean, Sd) UCL	47.1							
460												
461	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
462	Recommendations are based upon data size, data distribution, and skewness.											
463	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
464	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
465												
466												
467	**Zinc**											
468												
469	**General Statistics**											
470				Total Number of Observations	225	Number of Distinct Observations	113					
471						Number of Missing Observations	1					
472				Minimum	5	Mean	668					
473				Maximum	120000	Median	64					
474				SD	8003	Std. Error of Mean	533.5					
475				Coefficient of Variation	11.98	Skewness	14.93					
476												
477	**Normal GOF Test**											
478				Shapiro Wilk Test Statistic	0.078	**Shapiro Wilk GOF Test**						
479				5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level						
480				Lilliefors Test Statistic	0.481	**Lilliefors GOF Test**						
481				5% Lilliefors Critical Value	0.0595	Data Not Normal at 5% Significance Level						
482	**Data Not Normal at 5% Significance Level**											
483												
484	**Assuming Normal Distribution**											
485	**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**						
486				95% Student's-t UCL	1549	95% Adjusted-CLT UCL (Chen-1995)	2113					

487											95% Modified-t UCL (Johnson-1978)	1638
488												
489	**Gamma GOF Test**											
490					A-D Test Statistic	4.444E+28	**Anderson-Darling Gamma GOF Test**					
491					5% A-D Critical Value	0.869	Data Not Gamma Distributed at 5% Significance Level					
492					K-S Test Statistic	0.379	**Kolmogorov-Smirnov Gamma GOF Test**					
493					5% K-S Critical Value	0.066	Data Not Gamma Distributed at 5% Significance Level					
494	**Data Not Gamma Distributed at 5% Significance Level**											
495												
496	**Gamma Statistics**											
497					k hat (MLE)	0.303					k star (bias corrected MLE)	0.302
498					Theta hat (MLE)	2205					Theta star (bias corrected MLE)	2213
499					nu hat (MLE)	136.3					nu star (bias corrected)	135.8
500					MLE Mean (bias corrected)	668					MLE Sd (bias corrected)	1216
501											Approximate Chi Square Value (0.05)	109.9
502					Adjusted Level of Significance	0.0489					Adjusted Chi Square Value	109.8
503												
504	**Assuming Gamma Distribution**											
505					95% Approximate Gamma UCL (use when n>=50))	825.6					95% Adjusted Gamma UCL (use when n<50)	826.7
506												
507	**Lognormal GOF Test**											
508					Shapiro Wilk Test Statistic	0.908	**Shapiro Wilk Lognormal GOF Test**					
509					5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level					
510					Lilliefors Test Statistic	0.117	**Lilliefors Lognormal GOF Test**					
511					5% Lilliefors Critical Value	0.0595	Data Not Lognormal at 5% Significance Level					
512	**Data Not Lognormal at 5% Significance Level**											
513												
514	**Lognormal Statistics**											
515					Minimum of Logged Data	1.609					Mean of logged Data	4.232
516					Maximum of Logged Data	11.7					SD of logged Data	1.097
517												
518	**Assuming Lognormal Distribution**											
519					95% H-UCL	147.9					90% Chebyshev (MVUE) UCL	159.4
520					95% Chebyshev (MVUE) UCL	174.9					97.5% Chebyshev (MVUE) UCL	196.5
521					99% Chebyshev (MVUE) UCL	238.8						
522												
523	**Nonparametric Distribution Free UCL Statistics**											
524	**Data do not follow a Discernible Distribution (0.05)**											
525												
526	**Nonparametric Distribution Free UCLs**											
527					95% CLT UCL	1546					95% Jackknife UCL	1549
528					95% Standard Bootstrap UCL	1535					95% Bootstrap-t UCL	28027
529					95% Hall's Bootstrap UCL	14689					95% Percentile Bootstrap UCL	1731
530					95% BCA Bootstrap UCL	2347						
531					90% Chebyshev(Mean, Sd) UCL	2269					95% Chebyshev(Mean, Sd) UCL	2994
532					97.5% Chebyshev(Mean, Sd) UCL	4000					99% Chebyshev(Mean, Sd) UCL	5977
533												
534	**Suggested UCL to Use**											
535					95% Chebyshev (Mean, Sd) UCL	2994						
536												
537	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
538	Recommendations are based upon data size, data distribution, and skewness.											
539	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
540	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											

TRH >C16-C34

General Statistics

Total Number of Observations	15	Number of Distinct Observations	8
		Number of Missing Observations	211
Minimum	100	Mean	255.3
Maximum	970	Median	100
SD	280	Std. Error of Mean	72.31
Coefficient of Variation	1.097	Skewness	2.005

Normal GOF Test

Shapiro Wilk Test Statistic	0.626	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.881	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.326	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.22	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	382.7	95% Adjusted-CLT UCL (Chen-1995)	414.3
		95% Modified-t UCL (Johnson-1978)	388.9

Gamma GOF Test

A-D Test Statistic	1.99	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.754	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.299	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.226	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.47	k star (bias corrected MLE)	1.22
Theta hat (MLE)	173.7	Theta star (bias corrected MLE)	209.3
nu hat (MLE)	44.09	nu star (bias corrected)	36.6
MLE Mean (bias corrected)	255.3	MLE Sd (bias corrected)	231.2
		Approximate Chi Square Value (0.05)	23.76
Adjusted Level of Significance	0.0324	Adjusted Chi Square Value	22.49

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	393.4	95% Adjusted Gamma UCL (use when n<50)	415.6

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.733	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.881	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.289	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.22	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.605	Mean of logged Data	5.165
Maximum of Logged Data	6.877	SD of logged Data	0.808

Assuming Lognormal Distribution

595					95% H-UCL	411.9				90% Chebyshev (MVUE) UCL		393.7
596				95% Chebyshev (MVUE) UCL		465.1				97.5% Chebyshev (MVUE) UCL		564.3
597				99% Chebyshev (MVUE) UCL		759						
598												
599						**Nonparametric Distribution Free UCL Statistics**							
600						**Data do not follow a Discernible Distribution (0.05)**							
601												
602						**Nonparametric Distribution Free UCLs**							
603					95% CLT UCL	374.3				95% Jackknife UCL		382.7
604				95% Standard Bootstrap UCL		368.1				95% Bootstrap-t UCL		578.9
605				95% Hall's Bootstrap UCL		848.9				95% Percentile Bootstrap UCL		378.7
606				95% BCA Bootstrap UCL		425.3						
607				90% Chebyshev(Mean, Sd) UCL		472.3				95% Chebyshev(Mean, Sd) UCL		570.5
608				97.5% Chebyshev(Mean, Sd) UCL		706.9				99% Chebyshev(Mean, Sd) UCL		974.8
609												
610						**Suggested UCL to Use**							
611					95% Chebyshev (Mean, Sd) UCL	570.5						
612												
613						Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
614						Recommendations are based upon data size, data distribution, and skewness.							
615						These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).							
616						However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.							
617												
618												
619	**Benzo(a) pyrene**											
620												
621						**General Statistics**							
622					Total Number of Observations	17				Number of Distinct Observations		3
623										Number of Missing Observations		209
624					Minimum	0.5				Mean		0.571
625					Maximum	1.3				Median		0.5
626					SD	0.211				Std. Error of Mean		0.0513
627					Coefficient of Variation	0.371				Skewness		3.136
628												
629						**Normal GOF Test**						
630					Shapiro Wilk Test Statistic	0.39				**Shapiro Wilk GOF Test**		
631					5% Shapiro Wilk Critical Value	0.892				Data Not Normal at 5% Significance Level		
632					Lilliefors Test Statistic	0.513				**Lilliefors GOF Test**		
633					5% Lilliefors Critical Value	0.207				Data Not Normal at 5% Significance Level		
634						**Data Not Normal at 5% Significance Level**						
635												
636						**Assuming Normal Distribution**						
637						**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**	
638					95% Student's-t UCL	0.66				95% Adjusted-CLT UCL (Chen-1995)		0.697
639										95% Modified-t UCL (Johnson-1978)		0.667
640												
641						**Gamma GOF Test**						
642					A-D Test Statistic	5.132				**Anderson-Darling Gamma GOF Test**		
643					5% A-D Critical Value	0.739				Data Not Gamma Distributed at 5% Significance Level		
644					K-S Test Statistic	0.522				**Kolmogorov-Smirnov Gamma GOF Test**		
645					5% K-S Critical Value	0.209				Data Not Gamma Distributed at 5% Significance Level		
646						**Data Not Gamma Distributed at 5% Significance Level**						
647												
648						**Gamma Statistics**						

649					k hat (MLE)	12.28				k star (bias corrected MLE)		10.15
650					Theta hat (MLE)	0.0465				Theta star (bias corrected MLE)		0.0562
651					nu hat (MLE)	417.4				nu star (bias corrected)		345.1
652					MLE Mean (bias corrected)	0.571				MLE Sd (bias corrected)		0.179
653										Approximate Chi Square Value (0.05)		303.1
654					Adjusted Level of Significance	0.0346				Adjusted Chi Square Value		298.9
655												
656					**Assuming Gamma Distribution**							
657				95% Approximate Gamma UCL (use when n>=50))		0.65				95% Adjusted Gamma UCL (use when n<50)		0.659
658												
659					**Lognormal GOF Test**							
660					Shapiro Wilk Test Statistic	0.398				**Shapiro Wilk Lognormal GOF Test**		
661					5% Shapiro Wilk Critical Value	0.892				Data Not Lognormal at 5% Significance Level		
662					Lilliefors Test Statistic	0.517				**Lilliefors Lognormal GOF Test**		
663					5% Lilliefors Critical Value	0.207				Data Not Lognormal at 5% Significance Level		
664					**Data Not Lognormal at 5% Significance Level**							
665												
666					**Lognormal Statistics**							
667					Minimum of Logged Data	-0.693				Mean of logged Data		-0.602
668					Maximum of Logged Data	0.262				SD of logged Data		0.264
669												
670					**Assuming Lognormal Distribution**							
671					95% H-UCL	0.64				90% Chebyshev (MVUE) UCL		0.676
672					95% Chebyshev (MVUE) UCL	0.725				97.5% Chebyshev (MVUE) UCL		0.795
673					99% Chebyshev (MVUE) UCL	0.93						
674												
675					**Nonparametric Distribution Free UCL Statistics**							
676					**Data do not follow a Discernible Distribution (0.05)**							
677												
678					**Nonparametric Distribution Free UCLs**							
679					95% CLT UCL	0.655				95% Jackknife UCL		0.66
680					95% Standard Bootstrap UCL	N/A				95% Bootstrap-t UCL		N/A
681					95% Hall's Bootstrap UCL	N/A				95% Percentile Bootstrap UCL		N/A
682					95% BCA Bootstrap UCL	N/A						
683					90% Chebyshev(Mean, Sd) UCL	0.724				95% Chebyshev(Mean, Sd) UCL		0.794
684					97.5% Chebyshev(Mean, Sd) UCL	0.891				99% Chebyshev(Mean, Sd) UCL		1.081
685												
686					**Suggested UCL to Use**							
687					95% Student's-t UCL	0.66				or 95% Modified-t UCL		0.667
688												
689	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
690	Recommendations are based upon data size, data distribution, and skewness.											
691	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
692	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
693												

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
54 @ 1.00M	3/07/2017	M17-Jl02202	552701	1.00 M	FILL, sandy CLAY, Rubbish	10	68	6.6	0.6	19	27	2.6	<5	15	<2	0.8	13	110
DUPLICATE 1	3/07/2017	M17-Jl02205	552701	1.00 M	FILL, sandy CLAY, Rubbish	11	72	6.4	<0.4	14	30	1.3	<5	11	<2	0.3	36	92
RPD%						9.52	5.71	3.08	0	30.3	10.53	66.67	0	30.769	0	90.91	93.88	17.82

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
55 @ 0.50M	3/07/2017	M17-Jl02215	552701	0.50 M	FILL, silty SAND	9.3	52	6.5	<0.4	10	16	<0.1	<5	14	<2	<0.2	<10	120
DUPLICATE 2	3/07/2017	M17-Jl02238	552701	0.50 M	FILL, silty SAND	16	8	<2	<0.4	<5	6.3	3.3	<5	<5	<2	<0.2	<10	68
RPD%						52.96	146.7	0	0	0	87.00	0	0	0	0	0	0	55.32

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
52 @ 0.50M	3/07/2017	M17-Jl02275	552701	0.50 M	FILL, sandy CLAY	8.4	23	2.3	<0.4	6.9	6.7	<0.1	<5	<5	<2	0.3	<10	34
DUPLICATE 4	3/07/2017	M17-Jl02267	552701	0.50 M	FILL, sandy CLAY	8.3	13	2.8	<0.4	13	8.4	<0.1	<5	7.8	<2	<0.2	<10	21
RPD%						1.20	55.56	19.61	0	61.31	22.52	0	0	0	0	0	0	47.27

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
56 @ 2.00M	3/07/2017	M17-Jl02308	552701	2.00 M	FILL, silty SAND, Rubbish	11	77	4.4	<0.4	8.7	11	0.1	<5	11	<2	<0.2	<10	100
DUPLICATE 5	3/07/2017	M17-Jl02315	552701	2.00 M	FILL, silty SAND, Rubbish	11	43	4.9	<0.4	8.5	32	<0.1	<5	11	<2	<0.2	<10	73
RPD%						0	56.67	10.75	0	2.33	97.67	0	0	0	0	0	0	31.21

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
57 @ 1.00M	3/07/2017	M17-Jl02283	552701	1.00 M	FILL, silty SAND, Rubbish	11	150	23	<0.4	27	49	0.1	<5	25	<2	1.8	340	140
DUPLICATE 6	3/07/2017	M17-Jl02316	552701	1.00 M	FILL, silty SAND, Rubbish	12	99	13	2	28	97	0.6	<5	23	<2	4.1	320	390
RPD%						8.70	40.96	55.56	0	3.64	65.75	142.9	0	8.3333	0	77.97	6.06	94.33962

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
51 @ 1.50M	3/07/2017	M17-Jl02323	552701	1.50 M	FILL, sandy CLAY	11	53	9.2	<0.4	30	8.8	<0.1	<5	14	<2	<0.2	<10	110
DUPLICATE 7	3/07/2017	M17-Jl02317	552701	1.50 M	FILL, sandy CLAY	9.6	93	7.6	<0.4	23	15	<0.1	<5	13	<2	<0.2	<10	93
RPD%						13.59	54.79	19.05	0	26.42	52.10	0	0	7.41	0	0	0	16.75

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
58 @ 0.50M	3/07/2017	M17-Jl02367	552701	0.50 M	FILL, silty SAND	7.6	77	3.7	<0.4	8.3	20	<0.1	<5	5.9	<2	<0.2	<10	85
DUPLICATE 8	3/07/2017	M17-Jl02346	552701	0.50 M	FILL, silty SAND	8.4	50	5	<0.4	14	21	<0.1	<5	7.7	<2	<0.2	<10	78
RPD%						10	42.52	29.89	0	51.12	4.88	0	0	26.471	0	0	0	8.59

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
54 @ 1.00M	3/07/2017	M17-Jl02202	552701	1.00 M	FILL, sandy CLAY, Rubbish	10	68	6.6	0.6	19	27	2.6	<5	15	<2	0.8	13	110
SPLIT 1	3/07/2017	EM1708657001	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish	16.6	58	6	<1	10	58	0.6	4	8	<5	<2	40	105
RPD%						49.62	15.87	9.52	*DDL	62.07	72.94	125	*DDL	60.87	*DDL	*DDL	101.9	4.65

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
55 @ 0.50M	3/07/2017	M17-Jl02215	552701	0.50 M	FILL, silty SAND	9.3	52	6.5	<0.4	10	16	<0.1	<5	14	<2	<0.2	<10	120
SPLIT 2	3/07/2017	EM1708657002	EM1708657	0.50 M	FILL, silty SAND	9.1	11	<5	<1	5	7	<2	<2	2	<5	<2	<5	28
RPD%						2.17	130.2	*DDL	*DDL	66.67	78.26087	*DDL	*DDL	150	*DDL	*DDL	*DDL	124.3243

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
53 @ 1.00M	3/07/2017	M17-Jl02263	552701	1.00 M	FILL, sandy CLAY, Rubbish	22	74	4.7	1.9	13	48	<0.1	<5	12	<2	23	11	220
SPLIT 3	3/07/2017	EM1708657003	EM1708657	1.00 M	FILL, sandy CLAY, Rubbish	29.1	90	5	3	17	53	0.2	2	17	<5	111	<5	391
RPD%						27.79	19.51	6.186	44.9	26.67	9.90	*DDL	*DDL	34.483	*DDL	131.3	*DDL	55.97

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
52 @ 0.50M	3/07/2017	M17-Jl02275	552701	0.50 M	FILL, sandy CLAY	8.4	23	2.3	<0.4	6.9	6.7	<0.1	<5	<5	<2	0.3	<10	34
SPLIT 4	3/07/2017	EM1708657004	EM1708657	0.50 M	FILL, sandy CLAY	8.4	18	<5	<1	14	8	<0.1	<2	13	<5	<2	<5	35
RPD%						0	24.39	*DDL	*DDL	67.94	17.68707	0	*DDL	*DDL	*DDL	*DDL	*DDL	2.90

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
56 @ 2.00M	3/07/2017	M17-Jl02308	552701	2.00 M	FILL, silty SAND, Rubbish	11	77	4.4	<0.4	8.7	11	0.1	<5	11	<2	<0.2	<10	100
SPLIT 5	3/07/2017	EM1708657005	EM1708657	2.00 M	FILL, silty SAND, Rubbish	10.8	24	<5	<1	6	8	<0.1	<2	5	<5	<2	<5	27
RPD%						1.83	105	*DDL	*DDL	36.73	31.58	*DDL	*DDL	75	*DDL	*DDL	*DDL	114.9606

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
57 @ 1.00M	3/07/2017	M17-Jl02283	552701	1.00 M	FILL, silty SAND, Rubbish	11	150	23	<0.4	27	49	0.1	<5	25	<2	1.8	340	140
SPLIT 6	3/07/2017	EM1708657006	EM1708657	1.00 M	FILL, silty SAND, Rubbish	9	65	8	1	21	59	0.5	<2	16	<5	4	213	127
RPD%						20	79.07	96.77	*DDL	25	18.52	133.3	*DDL	43.902	*DDL	75.86	45.93	9.74

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
51 @ 1.50M	3/07/2017	M17-Jl02323	552701	1.50 M	FILL, sandy CLAY	11	53	9.2	<0.4	30	8.8	<0.1	<5	14	<2	<0.2	<10	110
SPLIT 7	3/07/2017	EM1708657007	EM1708657	1.50 M	FILL, sandy CLAY	11	57	<5	<1	15	10	<0.1	<2	8	<5	<2	<5	52
RPD%						0	7.27	*DDL	*DDL	66.67	12.77	0	*DDL	54.545	*DDL	*DDL	*DDL	71.60

						Inorganics	Lead	Metals										
						Moisture Content (dried @ 103°C)	Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
						%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						1	5	2	0.4	2	5	0.1	2	2	2	0.2	5	5
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**	**Sampling Depth**	**Lithological Description**													
58 @ 0.50M	3/07/2017	M17-Jl02367	552701	0.50 M	FILL, silty SAND	7.6	77	3.7	<0.4	8.3	20	<0.1	<5	5.9	<2	<0.2	<10	85
SPLIT 8	3/07/2017	EM1708657008	EM1708657	0.50 M	FILL, silty SAND	7.3	41	<5	<1	9	20	0.1	<2	5	<5	<2	<5	56
RPD%						4.03	61.02	*DDL	*DDL	8.09	0	*DDL	*DDL	16.514	*DDL	*DDL	*DDL	41.13

Geoaquitards Environmental				Lead	Metals											TPH
				Lead	Arsenic	Cadmium	Chromium (III+VI)	Copper	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	C6 - C9
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
EQL				0.001	0.001	0.0002	0.001	0.001	0.0001	0.005	0.001	0.001	0.005	0.005	0.005	20
Field ID	**Sampled Date**	**SampleCode**	**Lab Report Number**													
RINSATE	3/07/2017	M17-Jl02564	552701	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.0001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	-
TRIP	3/07/2017	M17-Jl02565	552701	-	-	-	-	-	-	-	-	-	-	-	-	<20

Appendix H
Laboratory Data Compilation - ASLP
Sandringham Golf Driving Range (20 Wangara Road, Sandringham)

Geoaquitards Environmental				Inorganics	Lead	Metals						PAH/Phenols
				pH (Initial)	Lead	Arsenic	Cadmium	Copper	Nickel	Tin	Zinc	Benzo(a) pyrene
				pH_Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
EQL				0.1	0.01	0.01	0.005	0.01	0.01	0.5	0.01	1
IWRG 621 Table 2 Soil Hazard Categorisation Thresholds – ASLP 1(mg/L)					1	0.7	0.2	200	2		300	1
Field_ID	**SampleCode**	**Lab_Report_Number**	**Sampled_Date-Time**									
48@3.0M	M17-Jl13566	553942	3/07/2017	8.7	0.17	0.02	<0.005	0.03	0.09	<0.5	2.1	-
68@0.5M	M17-Jl13567	553942	3/07/2017	8.2	-	-	-	-	-	-	-	<1
Statistical Summary												
Number of Results				2	1	1	1	1	1	1	1	1
Minimum Concentration				8.2	0.17	0.02	<0.005	0.03	0.09	<0.5	2.1	<1
Maximum Concentration				8.7	0.17	0.02	<0.005	0.03	0.09	<0.5	2.1	<1
Average Concentration												
Median Concentration				8.45	0.17	0.02	0.0025	0.03	0.09	0.25	2.1	0.5
Standard Deviation												
Geometric Standard Deviation				1								

APPENDIX I

LOGS FOR SOIL SAMPLING PROGRAM

Geoaquitards Environmental
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LOCATION NUMBER: 1

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, brown, dry, medium dense, occasional clay pieces and crushed rocks	1 at 0.15m 1 at 0.50m	No odour was detected in the soil samples.
			1.00		crushed rocks throughout	1 at 1.0m	
			1.50		FILL, sandy CLAY, brown mottled grey orange, moist, stiff, occasional crushed rocks and gravel	1 at 1.50m	No odour was detected in the soil samples.
			2.00		FILL, silty SAND, dark grey, moist, medium dense	1 at 2.0m	No odour was detected in the soil samples.
			2.50			1 at 2.50m	
			3.00			1 at 3.0m	
			3.50		Rubbish(Landfill Material) throughout	1 at 3.50m	No odour was detected in the soil samples.
			4.00		Borehole 1 terminated at 4m		
			4.50				

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LOCATION NUMBER: 2

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, brown, dry, medium dense, occasional clay pieces and crushed rocks	2 at 0.15m 2 at 0.50m	No odour was detected in the soil samples.
			1.00 1.50		FILL, sandy CLAY, brown mottled grey orange, moist, stiff, occasional crushed rocks and gravel, pieces of rubbish(Landfill Material)	2 at 1.0m 2 at 1.50m	No odour was detected in the soil samples.
			2.00		Borehole 2 terminated at 1.6m		

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LOCATION NUMBER: 3

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown, dry, medium dense, occasional clay pieces and crushed rocks	3 at 0.15m	No odour was detected in the soil samples.
			0.50			3 at 0.50m	
			1.00			3 at 1.0m	
					crushed rocks, bricks and rubbish(Landfill Material) throughout		
			1.50			3 at 1.50m	
					Borehole 3 terminated at 1.6m		
			2.00				

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LOCATION NUMBER: 4

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, grey, dry, medium dense, occasional clay pieces and gravel	4 at 0.15m 4 at 0.50m	No odour was detected in the soil samples.
			1.50		sandy CLAY, grey brown, moist/dry, stiff, occasional gravel	4 at 1.0m 4 at 1.50m	No odour was detected in the soil samples.
			2.00		Borehole 4 terminated at 1.6m		

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LOCATION NUMBER: 5

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, gravel throughout		No odour was detected in the soil samples.
						5 at 0.15m	
					moist		
			0.50			5 at 0.50m	
					rubbish(Landfill Material) throughout		
			1.00			5 at 1.0m	
			1.50			5 at 1.50m	
					Borehole 5 terminated at 1.6m		
			2.00				

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LOCATION NUMBER: 6

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, occasional gravel	6 at 0.15m	No odour was detected in the soil samples.
					gravel throughout		
			0.50			6 at 0.50m	
					moist, dark brown		
			1.00			6 at 1.0m	
			1.50			6 at 1.50m	
					Borehole 6 terminated at 1.6m		
			2.00				

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LOCATION NUMBER: 7

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, occasional gravel	7 at 0.15m	No odour was detected in the soil samples.
			0.50		gravel throughout	7 at 0.50m	
					moist, brown		
			1.00			7 at 1.0m	
			1.50			7 at 1.50m	
					Borehole 7 terminated at 1.6m		
			2.00				

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LOCATION NUMBER: 8

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, occasional gravel, occasional clay pieces	8 at 0.15m	No odour was detected in the soil samples.
			0.50			8 at 0.50m	
					gravel throughout		
			1.00			8 at 1.0m	
			1.50			8 at 1.50m	
					Borehole 8 terminated at 1.6m		
			2.00				

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LOCATION NUMBER: 9

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, dry, medium dense, occasional gravel, occasional clay pieces		No odour was detected in the soil samples.
						9 at 0.15m	
					rubbish(Landfill Material) throughout		
			0.50			9 at 0.50m	
					Borehole 9 terminated at 0.9m		
			1.00				
			1.50				

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LOCATION NUMBER: 10

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense, occasional gravel	10 at 0.15m	No odour was detected in the soil samples.
					gravel throughout		
			0.50			10 at 0.50m	
			1.00		rubbish(Landfill Material) throughout	10 at 1.0m	
			1.50			10 at 1.50m	
					Borehole 10 terminated at 1.6m		
			2.00				
			2.50				
			3.00				
			3.50				

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LOCATION NUMBER: 11

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 27/02/17 **COMPLETED** 27/02/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, grey, moist, medium dense, occasional gravel	11 at 0.15m 11 at 0.50m	No odour was detected in the soil samples.
			1.00		FILL, sandy CLAY, grey mottled brown, moist/dry, stiff, gravel throughout	11 at 1.0m	No odour was detected in the soil samples.
			1.50			11 at 1.50m	
			2.00		Borehole 11 terminated at 1.6m		
			2.50				
			3.00				
			3.50				

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LOCATION NUMBER: 12

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown, dry, medium dense, occasional gravel	12 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		silty SAND, pale brown, dry/moist, medium dense	12 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			12 at 1.00m 0.0	
			1.50			12 at 1.50m 0.0	
					clayey SAND, pale brown mottled orange brown, moist, medium dense		No odour was detected in the soil samples.
			2.00			12 at 2.00m 0.0	
			2.50			12 at 2.50m 0.0	
					sandy CLAY, brown mottled orange grey, moist, stiff		No odour was detected in the soil samples.
			3.00			12 at 3.00m 0.0	
					Borehole 12 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 13

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, occasional gravel	13 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			13 at 0.50m 0.0	
			1.00			13 at 1.00m 0.0	
			1.50		plastic	13 at 1.50m 0.0	Putrescible odour detected
			2.00		silty SAND, brown, moist, medium dense	13 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50		clayey SAND, pale brown mottled orange, moist, medium dense	13 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			13 at 3.00m 0.0	
			3.50		Borehole 13 terminated at 3.1m		

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LOCATION NUMBER: 14

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey, dry/moist, medium dense, occasional gravel	14 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			14 at 0.50m 0.0	
					FILL, silty SAND/Rubbish(Landfill Material), brown, moist, medium dense, occasional gravel		Putrescible odour detected
			1.00			14 at 1.00m 0.0	
			1.50			14 at 1.50m 0.0	
			2.00			14 at 2.00m 0.0	
					clayey SAND, brown mottled grey orange, moist, medium dense		No odour was detected in the soil samples.
			2.50			14 at 2.50m 0.0	
			3.00			14 at 3.00m 0.0	
					Borehole 14 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 15

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, dry/moist, medium dense, occasional gravel	15 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			15 at 0.50m 0.0	
			1.00			15 at 1.00m 0.0	Putrescible odour detected
			1.50			15 at 1.50m 0.0	
			2.00		clayey SAND, brown mottled grey orange, moist, medium dense	15 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50			15 at 2.50m 0.0	
			3.00			15 at 3.00m 0.0	
					Borehole 15 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 16

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, grey/brown, dry, medium dense	16 at 0.15m 0.0 16 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, pale grey, moist, medium dense	16 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50		FILL, silty SAND, dark grey brown, moist, medium dense	16 at 1.50m 0.0	No odour was detected in the soil samples.
			2.00			16 at 2.00m 0.0	
			2.50		clayey SAND, brown mottled grey orange, moist, medium dense	16 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			16 at 3.00m 0.0	
			3.50		Borehole 16 terminated at 3.1m		

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LOCATION NUMBER: 17

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Hand Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey, dry/moist, medium dense, occasional gravel	17 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			17 at 0.50m 0.0	
			1.00			17 at 1.00m 0.0	
			1.50			17 at 1.50m 0.0	
			2.00		clayey SAND, brown mottled grey orange, moist, medium dense	17 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50			17 at 2.50m 0.0	
			3.00			17 at 3.00m 0.0	
			3.10		Borehole 17 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 18

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, pale brown, moist, medium dense	18 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			18 at 0.50m 0.0	
			1.00			18 at 1.00m 0.0	
			1.50			18 at 1.50m 0.0	
			2.00			18 at 2.00m 0.0	
					clayey SAND, orange, moist, medium dense		No odour was detected in the soil samples.
			2.50			18 at 2.50m 0.0	
			3.00			18 at 3.00m 0.0	
					Borehole 18 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 19

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, pale brown, moist, medium dense	19 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			19 at 0.50m 0.0	
			1.00			19 at 1.00m 0.0	
			1.50			19 at 1.50m 0.0	
			2.00			19 at 2.00m 0.0	
			2.50			19 at 2.50m 0.0	
					clayey SAND, orange, moist, medium dense		No odour was detected in the soil samples.
			3.00			19 at 3.00m 0.0	
					Borehole 19 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 20

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, brown, dry, medium dense, occasional gravel	20 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			20 at 0.50m 0.0	
			1.00		silty SAND, grey, moist, medium dense	20 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			20 at 1.50m 0.0	
			2.00		clayey SAND, pale brown mottled orange grey, moist, medium dense	20 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50			20 at 2.50m 0.0	
			3.00			20 at 3.00m 0.0	
			3.10		Borehole 20 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 21

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, gravel throughout	21 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			21 at 0.50m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			1.00			21 at 1.00m 0.0	
			1.50			21 at 1.50m 0.0	
					clayey SAND, pale brown mottled orange, moist, medium dense		No odour was detected in the soil samples.
			2.00			21 at 2.00m 0.0	
			2.50			21 at 2.50m 0.0	
			3.00			21 at 3.00m 0.0	
					Borehole 21 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 22

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, dry, medium dense, gravel throughout	22 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			22 at 0.50m 0.0	
			1.00			22 at 1.00m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			1.50			22 at 1.50m 0.0	
					clayey SAND, pale brown mottled orange, moist, medium dense		No odour was detected in the soil samples.
			2.00			22 at 2.00m 0.0	
			2.50			22 at 2.50m 0.0	
			3.00			22 at 3.00m 0.0	
					Borehole 22 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 23

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, dark grey brown, moist, medium dense	23 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			23 at 0.50m 0.0	
			1.00			23 at 1.00m 0.0	
			1.50			23 at 1.50m 0.0	
			2.00			23 at 2.00m 0.0	
					sandy CLAY, brown mottled orange grey, moist, stiff		No odour was detected in the soil samples.
			2.50			23 at 2.50m 0.0	
					clayey SAND, orange mottled brown, moist, medium dense		No odour was detected in the soil samples.
			3.00			23 at 3.00m 0.0	
					Borehole 23 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 24

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, brown, dry, medium dense	24 at 0.15m 0.0 24 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, grey brown, moist, medium dense, gravel/cobble throughout	24 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			24 at 1.50m 0.0	
			2.00			24 at 2.00m 0.0	
			2.50			24 at 2.50m 0.0	
			3.00			24 at 3.00m 0.0	
			3.50		Borehole 24 terminated at 3.1m		

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LOCATION NUMBER: 25

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, dry/moist, medium dense, occasional gravel	25 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			25 at 0.50m 0.0	
			1.00			25 at 1.00m 0.0	
			1.50			25 at 1.50m 0.0	
					clayey SAND, brown mottled orange brown, moist/dry, medium dense		No odour was detected in the soil samples.
			2.00			25 at 2.00m 0.0	
			2.50			25 at 2.50m 0.0	
			3.00			25 at 3.00m 0.0	
					Borehole 25 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 26

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, brown, moist, medium dense	26 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			26 at 0.50m 0.0	
			1.00		FILL, silty SAND, dark grey brown, moist, medium dense	26 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			26 at 1.50m 0.0	
			2.00			26 at 2.00m 0.0	
			2.50			26 at 2.50m 0.0	
			3.00			26 at 3.00m 0.0	
			3.10		Borehole 26 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 27

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense	27 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			27 at 0.50m 0.0	
			1.00		silty SAND, brown, moist, medium dense	27 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			27 at 1.50m 0.0	
			2.00			27 at 2.00m 0.0	
			2.50			27 at 2.50m 0.0	
			3.00			27 at 3.00m 0.0	
					Borehole 27 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 28

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense, crushed rocks throughout, occasional glass pieces	28 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			28 at 0.50m 0.0	
			1.00			28 at 1.00m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			1.50			28 at 1.50m 0.0	
					clayey SAND, grey mottled orange, moist, medium dense		No odour was detected in the soil samples.
			2.00			28 at 2.00m 0.0	
			2.50			28 at 2.50m 0.0	
					sandy CLAY, grey mottled orange, moist, stiff		No odour was detected in the soil samples.
			3.00			28 at 3.00m 0.0	
					Borehole 28 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 29

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	29 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			29 at 0.50m 0.0	
			1.00			29 at 1.00m 0.0	
			1.50			29 at 1.50m 0.0	
			2.00		rubbish(Landfill Material) throughout	29 at 2.00m 0.0	Putrescible odour detected
			2.50			29 at 2.50m 0.0	
					Borehole 29 terminated at 2.7m		
			3.00				
			3.50				

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LOCATION NUMBER: 30

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey brown, moist, medium dense	30 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			30 at 0.50m 0.0	
			1.00			30 at 1.00m 0.0	
			1.50			30 at 1.50m 0.0	
			2.00		FILL, Rubbish(Landfill Material), silty SAND, grey brown, moist, medium dense	30 at 2.00m 0.1	Putrescible odour detected
			2.50			30 at 2.50m 0.1	
			3.00			30 at 3.00m 0.0	
			3.10		Borehole 30 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 31

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	31 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, silty CLAY, brown mottled orange grey, moist, stiff	31 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			31 at 1.00m 0.0	
			1.50			31 at 1.50m 0.0	
					FILL, Rubbish(Landfill Material), silty CLAY, brown mottled orange grey, moist, stiff		Putrescible odour detected
			2.00			31 at 2.00m 0.0	
			2.50			31 at 2.50m 0.0	
			3.00			31 at 3.00m 0.3	
			3.50		Borehole 31 terminated at 3.1m		

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LOCATION NUMBER: 32

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, dark grey brown, moist, medium dense	32 at 0.15m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense	32 at 0.50m 0.0 32 at 1.00m 0.2	No odour was detected in the soil samples. Putrescible odour detected
			1.50			32 at 1.50m 0.7	
			2.00			32 at 2.00m 0.2	
			2.50			32 at 2.50m 0.2	
			3.00			32 at 3.00m 0.2	
			3.50		Borehole 32 terminated at 3.1m		

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LOCATION NUMBER: 33

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, dark grey brown, moist, medium dense	33 at 0.15m 0.1 33 at 0.50m 0.2	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense	33 at 1.00m 0.1	Putrescible odour detected
			1.50			33 at 1.50m 0.0	
			2.00			33 at 2.00m 0.0	
			2.50			33 at 2.50m 0.1	
			3.00			33 at 3.00m 0.1	
			3.50		Borehole 33 terminated at 3.1m		

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LOCATION NUMBER: 34

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, dark grey brown, moist, medium dense	34 at 0.15m 0.0 34 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			34 at 1.00m 0.0	
			1.50			34 at 1.50m 0.0	
			2.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	34 at 2.00m 0.0	Putrescible odour detected
			2.50			34 at 2.50m 0.0	
			3.00			34 at 3.00m 0.0	
			3.50		Borehole 34 terminated at 3.1m		

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LOCATION NUMBER: 35

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, dark grey brown, moist, medium dense	35 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			35 at 0.50m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			1.00			35 at 1.00m 0.0	
			1.50			35 at 1.50m 0.0	
					silty SAND, dark brown, moist, medium dense		No odour was detected in the soil samples.
			2.00			35 at 2.00m 0.0	
			2.50			35 at 2.50m 0.0	
			3.00			35 at 3.00m 0.0	
					Borehole 35 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 36

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense, crushed rocks throughout, occasional glass pieces	36 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			36 at 0.50m 0.0	
			1.00			36 at 1.00m 0.0	
			1.50			36 at 1.50m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			2.00			36 at 2.00m 0.0	
					clayey SAND, grey mottled orange, moist, medium dense		No odour was detected in the soil samples.
			2.50			36 at 2.50m 0.0	
					sandy CLAY, grey mottled orange, moist, stiff		No odour was detected in the soil samples.
			3.00			36 at 3.00m 0.0	
					Borehole 36 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 37

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	37 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled grey, moist, stiff	37 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, grey brown, moist, medium dense	37 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			37 at 1.50m 0.0	Putrescible odour detected
			2.00			37 at 2.00m 0.0	
			2.50			37 at 2.50m 0.0	
			3.00			37 at 3.00m 0.0	
					Borehole 37 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 38

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	38 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	38 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	38 at 1.00m 0.0	Putrescible odour detected
			1.50			38 at 1.50m 0.0	
			2.00		Borehole 38 terminated at 1.8m		

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LOCATION NUMBER: 39

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, dark grey brown, moist, medium dense	39 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			39 at 0.50m 0.1	
			1.00			39 at 1.00m 0.2	Putrescible odour detected
			1.50			39 at 1.50m 0.1	
			2.00			39 at 2.00m 0.7	
			2.50			39 at 2.50m 0.5	
			3.00			39 at 3.00m 0.0	
					Borehole 39 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 40

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, dark grey brown, moist, medium dense	40 at 0.15m 0.0	No odour was detected in the soil samples.
			1.00			40 at 0.50m 0.1	
			1.50		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	40 at 1.00m 0.1	Putrescible odour detected
			2.00			40 at 1.50m 1.4	
			2.50			40 at 2.00m 0.3	
			3.00			40 at 2.50m 1.2	
			3.50		Borehole 40 terminated at 3.1m	40 at 3.00m 1.4	

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LOCATION NUMBER: 41

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	41 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			41 at 0.50m 0.0	
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	41 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			41 at 1.50m 0.0	Putrescible odour detected
			2.00			41 at 2.00m 0.0	
			2.50			41 at 2.50m 0.0	
			3.00			41 at 3.00m 0.0	
			3.10		Borehole 41 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 42

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark brown, moist, medium dense	42 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			42 at 0.50m 0.0	
			1.00		silty SAND, dark grey brown, moist, medium dense	42 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			42 at 1.50m 0.0	
					silty SAND, dark brown, moist, medium dense		No odour was detected in the soil samples.
			2.00			42 at 2.00m 0.0	
			2.50			42 at 2.50m 0.0	
			3.00			42 at 3.00m 0.0	
					Borehole 42 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 43

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense, crushed rocks throughout, occasional glass pieces	43 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			43 at 0.50m 0.0	
			1.00			43 at 1.00m 0.0	
			1.50		dry	43 at 1.50m 0.0	
			2.00			43 at 2.00m 0.0	
			2.50			43 at 2.50m 0.0	
			3.00			43 at 3.00m 0.0	
					Borehole 43 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 44

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	44 at 0.15m 0.0	No odour was detected in the soil samples.
					FILL, sandy CLAY, brown mottled grey, moist, stiff		No odour was detected in the soil samples.
			0.50			44 at 0.50m 0.0	
			1.00			44 at 1.00m 0.0	Putrescible odour detected
					FILL, silty SAND, brown grey moist, medium dense		No odour was detected in the soil samples.
			1.50			44 at 1.50m 0.0	
			2.00			44 at 2.00m 0.0	
					Borehole 44 terminated at 2.1m		
			2.50				
			3.00				
			3.50				

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LOCATION NUMBER: 45

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey brown, moist, medium dense, occasional layers of clay	45 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			45 at 0.50m 0.0	
			1.00			45 at 1.00m 0.0	
			1.50		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	45 at 1.50m 0.0	Putrescible odour detected
			2.00			45 at 2.00m 0.0	
			2.50			45 at 2.50m 0.0	
			3.00			45 at 3.00m 0.3	
			3.10		Borehole 45 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 46

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, grey brown, moist, medium dense	46 at 0.15m 0.0	No odour was detected in the soil samples.
					FILL, sandy CLAY, brown mottled orange grey, moist, stiff	46 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	46 at 1.00m 0.1	No odour was detected in the soil samples.
			1.50			46 at 1.50m 0.0	Putrescible odour detected
			2.00			46 at 2.00m 0.1	
			2.50			46 at 2.50m 0.1	
			3.00			46 at 3.00m 0.0	
			3.50		Borehole 46 terminated at 3.1m		

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LOCATION NUMBER: 47

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, dark grey brown, moist, medium dense	47 at 0.15m 0.7	No odour was detected in the soil samples.
			0.50			47 at 0.50m 0.5	
			1.00			47 at 1.00m 0.4	Putrescible odour detected
			1.50			47 at 1.50m 1.5	
			2.00			47 at 2.00m 2.3	
			2.50			47 at 2.50m 2.7	
			3.00			47 at 3.00m 1.0	
					Borehole 47 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 48

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, brown, moist, medium dense	48 at 0.15m 0.0 48 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			48 at 1.00m 0.0	
			1.50		FILL, silty SAND, dark grey brown, moist, medium dense, plastic, rubbish(Landfill Material)	48 at 1.50m 0.0	No odour was detected in the soil samples.
			2.00			48 at 2.00m 0.0	
			2.50		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, very moist - wet, medium dense, plastic	48 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			48 at 3.00m 0.0	
			3.50		Borehole 48 terminated at 3.1m		

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LOCATION NUMBER: 49

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	49 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			49 at 0.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			1.00			49 at 1.00m 0.0	
							Putrescible odour detected
			1.50			49 at 1.50m 0.0	
			2.00			49 at 2.00m 0.0	
			2.50			49 at 2.50m 0.0	
			3.00			49 at 3.00m 0.0	
			3.10		Borehole 49 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 50

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark brown grey, dry, medium dense	50 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			50 at 0.50m 0.0	
			1.00		silty SAND, brown, dry, medium dense	50 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			50 at 1.50m 0.0	
			2.00			50 at 2.00m 0.0	
			2.50		sandy CLAY, pale brown/orange, moist, stiff	50 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			50 at 3.00m 0.0	
			3.50		Borehole 50 terminated at 3.1m		

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LOCATION NUMBER: 51

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey brown, moist, medium dense, occasional glass pieces	51 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			51 at 0.50m 0.0	
			1.00			51 at 1.00m 0.0	
					FILL, sandy CLAY, orange brown, dry/moist, very stiff, occasional gravel, occasional metals and ballast		No odour was detected in the soil samples.
			1.50			51 at 1.50m 0.0 Duplicate 7 Split 7	
					FILL, clayey SAND, grey brown, moist, medium dense, occasional metals and plastic		No odour was detected in the soil samples.
			2.00			51 at 2.00m 0.0	
					FILL, clayey SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			2.50			51 at 2.50m 0.0	
			3.00			51 at 3.00m 0.0	
					Borehole 51 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 52

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	52 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff, occasional glass pieces	52 at 0.50m 0.0 Duplicate 4 Split 4	No odour was detected in the soil samples.
			1.00			52 at 1.00m 0.0	Putrescible odour detected
			1.50			52 at 1.50m 0.0	
			2.00			52 at 2.00m 0.0	
			2.50			52 at 2.50m 0.0	
			3.00			52 at 3.00m 0.0	
					Borehole 52 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 53

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	53 at 0.15m 0.4	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	53 at 0.50m 0.1	No odour was detected in the soil samples.
			1.00		FILL, sandy CLAY, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	53 at 1.00m 0.3 Duplicate 3 Split 3	No odour was detected in the soil samples. Putrescible odour detected
			1.50			53 at 1.50m 0.0	
			2.00		Borehole 53 terminated at 1.9m		
			2.50				
			3.00				
			3.50				

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LOCATION NUMBER: 54

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	54 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	54 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			54 at 1.00m 0.1 Duplicate 1 Split 1	
					FILL, sandy CLAY, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic, metals		Putrescible odour detected
			1.50			54 at 1.50m 0.6	
			2.00			54 at 2.00m 0.3	
			2.50			54 at 2.50m 0.2	
			3.00			54 at 3.00m 0.4	
					Borehole 54 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 55

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	55 at 0.15m 1.0	No odour was detected in the soil samples.
			0.50			55 at 0.50m 0.5 Duplicate 2 Split 2	
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	55 at 1.00m 0.4	No odour was detected in the soil samples.
			1.50			55 at 1.50m 0.6	Putrescible odour detected
			2.00			55 at 2.00m 0.8	
			2.50			55 at 2.50m 0.1	
			3.00			55 at 3.00m 3.6	
			3.10		Borehole 55 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 56

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	56 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			56 at 0.50m 0.0	
			1.00			56 at 1.00m 0.0	
			1.50			56 at 1.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense-loose, plastic		Putrescible odour detected
			2.00			56 at 2.00m 0.0 Duplicate 5 Split 5	
			2.50			56 at 2.50m 0.0	
			3.00			56 at 3.00m 0.0	
					Borehole 56 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 57

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	57 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			57 at 0.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			1.00			57 at 1.00m 0.0 Duplicate 6 Split 6	Putrescible odour detected
			1.50			57 at 1.50m 0.0	
			2.00			57 at 2.00m 0.0	
			2.50			57 at 2.50m 0.0	
			3.00			57 at 3.00m 0.0	
			3.10		Borehole 57 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 58

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, bricks, rubble throughout	58 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			58 at 0.50m 0.0 Duplicate 8 Split 8	
			1.00			58 at 1.00m 0.0	
			1.50			58 at 1.50m 0.0	
			2.00			58 at 2.00m 0.0	
					silty SAND, grey brown, very moist, medium dense		No odour was detected in the soil samples.
			2.50			58 at 2.50m 0.0	
			3.00			58 at 3.00m 0.0	
					Borehole 58 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 59

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense, glass pieces, occasional clay pieces	59 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			59 at 0.50m 0.0	
			1.00			59 at 1.00m 0.0	
			1.50			59 at 1.50m 0.0	
			2.00			59 at 2.00m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			2.50			59 at 2.50m 0.0	
			3.00			59 at 3.00m 0.0	
					Borehole 59 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 60

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	60 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	60 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			60 at 1.00m 0.0	
			1.50			60 at 1.50m 0.0	
			2.00			60 at 2.00m 0.0	
			2.50			60 at 2.50m 0.1	
			3.00		FILL, sandy CLAY, Rubbish(Landfill Material), grey brown, moist, medium dense, plastic	60 at 3.00m 0.0	Putrescible odour detected
			3.50		Borehole 60 terminated at 3.1m		

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LOCATION NUMBER: 61

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense		No odour was detected in the soil samples.
					FILL, sandy CLAY, brown mottled orange grey, moist, stiff	61 at 0.15m 0.1	No odour was detected in the soil samples.
			0.50			61 at 0.50m 0.0	
					FILL, sandy CLAY, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			1.00			61 at 1.00m 0.2	
							Putrescible odour detected
			1.50			61 at 1.50m 0.0	
			2.00			61 at 2.00m 2.3	
			2.50			61 at 2.50m 1.2	
			3.00			61 at 3.00m 0.9	
					Borehole 61 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 62

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, grey brown, moist, medium dense	62 at 0.15m 0.2	No odour was detected in the soil samples.
			1.00		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	62 at 0.50m 0.0 62 at 1.00m 0.1 62 at 1.50m 0.0	No odour was detected in the soil samples.
					FILL, sandy CLAY, Rubbish(Landfill Material), plastic		Putrescible odour detected
			2.00 2.50 3.00 3.50		Borehole 62 terminated at 1.8m		

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LOCATION NUMBER: 63

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	63 at 0.15m 0.1	No odour was detected in the soil samples.
			0.50			63 at 0.50m 0.4	
			1.00			63 at 1.00m 0.9	
			1.50			63 at 1.50m 0.9	
			2.00			63 at 2.00m 1.5	
			2.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense - loose, plastic		Putrescible odour detected
			2.50			63 at 2.50m 0.8	
			3.00			63 at 3.00m 0.4	
			3.10		Borehole 63 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 64

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, dark grey brown, moist, medium dense	64 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			64 at 0.50m 0.0	
			1.00			64 at 1.00m 0.0	
			1.50			64 at 1.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense-loose, plastic		Putrescible odour detected
			2.00			64 at 2.00m 0.2	
			2.50			64 at 2.50m 0.0	
			3.00			64 at 3.00m 0.0	
					Borehole 64 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 65

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense	65 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, orange, moist, stiff	65 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	65 at 1.00m 0.0	Putrescible odour detected
			1.50			65 at 1.50m 0.0	
			2.00			65 at 2.00m 0.0	
			2.50			65 at 2.50m 0.0	
			3.00			65 at 3.00m 0.0	
			3.50		Borehole 65 terminated at 3.1m		

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LOCATION NUMBER: 66

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, bricks, rubble throughout	66 at 0.15m 0.0 66 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			66 at 1.00m 0.0	
			1.50			66 at 1.50m 0.0	
			2.00		FILL, silty sandy CLAY, brown, mottler grey orange, moist, stiff	66 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50		FILL, silty SAND, dark grey brown, moist, medium dense	66 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			66 at 3.00m 0.0	
			3.50		Borehole 66 terminated at 3.1m		

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LOCATION NUMBER: 67

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey brown, moist, medium dense	67 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			67 at 0.50m 0.0	
			1.00			67 at 1.00m 0.0	
					FILL, sandy CLAY, brown mottled orange grey, moist, stiff		Putrescible odour detected
			1.50			67 at 1.50m 0.0	
			2.00			67 at 2.00m 0.0	
			2.50			67 at 2.50m 0.0	
			3.00			67 at 3.00m 0.0	
					Borehole 67 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 68

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	68 at 0.15m 0.1	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff	68 at 0.50m 0.1	No odour was detected in the soil samples.
			1.00			68 at 1.00m 0.1	
			1.50			68 at 1.50m 0.1	
			2.00			68 at 2.00m 0.1	
					FILL, sandy CLAY, Rubbish(Landfill Material), plastic		Putrescible odour detected
			2.50		Borehole 68 terminated at 2.2m		
			3.00				
			3.50				

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LOCATION NUMBER: 69

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, dark grey brown, moist, medium dense	69 at 0.15m 0.0	No odour was detected in the soil samples.
			1.00			69 at 0.50m 0.0	
			1.50		FILL, silty SAND, dark grey brown, moist, medium dense	69 at 1.00m 0.0	No odour was detected in the soil samples.
			2.00		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense-loose, plastic	69 at 1.50m 0.0	Putrescible odour detected
			2.50			69 at 2.00m 0.0	
			3.00			69 at 2.50m 0.0	
			3.50		Borehole 69 terminated at 3.1m	69 at 3.00m 0.0	

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LOCATION NUMBER: 70

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense, glass pieces, occasional clay pieces	70 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			70 at 0.50m 0.0	
			1.00			70 at 1.00m 0.0	
			1.50			70 at 1.50m 0.0	
			2.00			70 at 2.00m 0.0	
			2.50		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	70 at 2.50m 0.0	No odour was detected in the soil samples.
			3.00			70 at 3.00m 0.0	
					Borehole 70 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 71

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense, occasional clay pieces, occasional bricks, gravel throughout	71 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			71 at 0.50m 0.0	
			1.00			71 at 1.00m 0.0	
			1.50			71 at 1.50m 0.0	
			2.00			71 at 2.00m 0.0	
			2.50			71 at 2.50m 0.0	
					bluestone boulders Borehole 71 terminated at 2.6m		
			3.00				
			3.50				

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LOCATION NUMBER: 72

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PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey brown, moist, medium dense, crushed rocks throughout	72 at 0.15m 0.2	No odour was detected in the soil samples.
			0.50			72 at 0.50m 0.1	
			1.00			72 at 1.00m 0.0	Putrescible odour detected
			1.50		ballast		
					Borehole 72 terminated at 1.6m		
			2.00				
			2.50				
			3.00				
			3.50				

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LOCATION NUMBER: 73

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey brown, moist, medium dense	73 at 0.15m 0.2	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, brown mottled orange grey, moist, stiff, occasional sandy lenses	73 at 0.50m 0.2	No odour was detected in the soil samples.
			1.00			73 at 1.00m 0.3	Putrescible odour detected
			1.50			73 at 1.50m 0.1	
			2.00			73 at 2.00m 0.4	
			2.50			73 at 2.50m 0.1	
			3.00			73 at 3.00m 0.2	
			3.50		Borehole 73 terminated at 3.1m		

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LOCATION NUMBER: 74

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown, moist, medium dense	74 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, clayey SAND, brown, moist, stiff	74 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			74 at 1.00m 0.0	
					FILL, silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			1.50			74 at 1.50m 0.1	
					FILL, sandy CLAY, brown, moist, stiff		Putrescible odour detected
			2.00			74 at 2.00m 0.2	
			2.50			74 at 2.50m 0.4	
			3.00			74 at 3.00m 0.1	
					Borehole 74 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 75

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense	75 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, orange, moist, stiff	75 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00		FILL, silty SAND, grey, moist, medium dense	75 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50		FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic	75 at 1.50m 0.0	Putrescible odour detected
			2.00			75 at 2.00m 0.0	
			2.50			75 at 2.50m 0.0	
			3.00			75 at 3.00m 0.0	
			3.50		Borehole 75 terminated at 3.1m		

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LOCATION NUMBER: 76

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, grey, moist, medium dense	76 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50		FILL, sandy CLAY, orange, moist, stiff	76 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			76 at 1.00m 0.0	
			1.50			76 at 1.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), dark grey brown, moist, medium dense, plastic		Putrescible odour detected
			2.00			76 at 2.00m 0.0	
			2.50			76 at 2.50m 0.0	
			3.00			76 at 3.00m 0.0	
					Borehole 76 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 77

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, brown, dry, medium dense	77 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			77 at 0.50m 0.0	
			1.00		FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic	77 at 1.00m 0.0	No odour was detected in the soil samples.
			1.50			77 at 1.50m 0.0	
			2.00			77 at 2.00m 0.0	
			2.50			77 at 2.50m 0.0	
			3.00			77 at 3.00m 0.0	
			3.50		Borehole 77 terminated at 3.1m		

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LOCATION NUMBER: 78

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey, moist, medium dense, occasional clay pieces, occasional bricks, gravel throughout	78 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			78 at 0.50m 0.0	
			1.00			78 at 1.00m 0.0	
			1.50			78 at 1.50m 0.0	
			2.00				
			2.50		bluestone boulders Borehole 78 terminated at 2.2m		
			3.00				
			3.50				

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LOCATION NUMBER: 79

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, grey, moist, medium dense, occasional clay pieces, occasional bricks, gravel throughout	79 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			79 at 0.50m 0.0	
			1.00			79 at 1.00m 0.0	
			1.50			79 at 1.50m 0.0	
			2.00		FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic	79 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50			79 at 2.50m 0.0	
			3.00			79 at 3.00m 0.0	
			3.10		Borehole 79 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 80

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown, dry, medium dense, occasional crushed rocks, gravel and clay lenses	80 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			80 at 0.50m 0.0	
			1.00			80 at 1.00m 0.0	
			1.50			80 at 1.50m 0.0	
			2.00			80 at 2.00m 0.0	
			2.50			80 at 2.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			3.00			80 at 3.00m 0.0	
					Borehole 80 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 81

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, brown, dry, medium dense, occasional crushed rocks, gravel and clay lenses	81 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			81 at 0.50m 0.0	
			1.00			81 at 1.00m 0.0	
			1.50			81 at 1.50m 0.0	
			2.00			81 at 2.00m 0.0	
			2.00		FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			2.50			81 at 2.50m 0.0	
			3.00			81 at 3.00m 0.0	
			3.10		Borehole 81 terminated at 3.1m		
			3.50				

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LOCATION NUMBER: 82

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.50		FILL, silty SAND, brown, dry, medium dense, occasional crushed rocks, gravel and clay lenses	82 at 0.15m 0.0 82 at 0.50m 0.0	No odour was detected in the soil samples.
			1.00			82 at 1.00m 0.0	
			1.50			82 at 1.50m 0.0	
			2.00		FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic	82 at 2.00m 0.0	No odour was detected in the soil samples.
			2.50			82 at 2.50m 0.0	
			3.00			82 at 3.00m 0.0	
			3.50		Borehole 82 terminated at 3.1m		

Geoaquitards Environmental
Suite 23, 160 South Gippsland Highway
Dandenong South, VIC, 3175
Telephone: 03 9554 3258
Fax: 03 9705 7948

LOCATION NUMBER: 83

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD			0.00		FILL, silty SAND, brown, dry, medium dense, occasional gravel and clay lenses	83 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			83 at 0.50m 0.0	
			1.00			83 at 1.00m 0.0	
			1.50			83 at 1.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), brown, moist, medium dense, plastic		No odour was detected in the soil samples.
			2.00			83 at 2.00m 0.0	
			2.50			83 at 2.50m 0.0	
			3.00			83 at 3.00m 0.0	
			3.10		Borehole 83 terminated at 3.1m		
			3.50				

Geoaquitards Environmental
Suite 23, 160 South Gippsland Highway
Dandenong South, VIC, 3175
Telephone: 03 9554 3258
Fax: 03 9705 7948

LOCATION NUMBER: 84

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown/grey, dry, medium dense	84 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			84 at 0.50m 0.0	
			1.00			84 at 1.00m 0.0	
			1.50			84 at 1.50m 0.0	
					FILL, silty SAND, Rubbish(Landfill Material), grey brown, dry, medium dense, plastic		No odour was detected in the soil samples.
			2.00			84 at 2.00m 0.0	
			2.50			84 at 2.50m 0.0	
					silty SAND, brown, moist, medium dense		No odour was detected in the soil samples.
			3.00			84 at 3.00m 0.0	
					Borehole 84 terminated at 3.1m		
			3.50				

Geoaquitards Environmental
Suite 23, 160 South Gippsland Highway
Dandenong South, VIC, 3175
Telephone: 03 9554 3258
Fax: 03 9705 7948

LOCATION NUMBER: 85

CLIENT Bayside City Council **PROJECT NAME** Environmental Due Diligence Report

PROJECT NUMBER RM406-M.1 **PROJECT LOCATION** Sandringham Golf Driving Range (20 Wangara Road, S

DATE STARTED 03/07/17 **COMPLETED** 03/07/17 **R.L. SURFACE** **DATUM**

DRILLING CONTRACTOR Civiltest Pty Ltd **SLOPE** 90° **BEARING** ---

EQUIPMENT Mechanical Auger Drilling **HOLE LOCATION**

HOLE SIZE **LOGGED BY** EE **CHECKED BY** EE

NOTES

Method	Water	RL (mAHD)	Depth (m)	Graphic Log	Material Description	Sample Numbers PID Values (ppm)	Additional Observations
AD					FILL, silty SAND, brown/grey, dry, medium dense	85 at 0.15m 0.0	No odour was detected in the soil samples.
			0.50			85 at 0.50m 0.0	
			1.00			85 at 1.00m 0.0	
			1.50			85 at 1.50m 0.0	
					FILL, silty sandy CLAY, orange brown, moist, stiff		No odour was detected in the soil samples.
			2.00			85 at 2.00m 0.0	
			2.50			85 at 2.50m 0.0	
					FILL, silty SAND, grey, dry, medium dense		No odour was detected in the soil samples.
			3.00			85 at 3.00m 0.0	
					Borehole 85 terminated at 3.1m		
			3.50				

APPENDIX J

SOIL SAMPLING TEST LOCATIONS AND TEST LOCATION PHOTOGRAPHS

FIGURE 8 - SOIL SAMPLING TEST LOCATIONS


Test Locations 1 - 11
(Undertaken on 27/02/2017)
Test Locations 12 - 85
(Undertaken on 3/07/2017)
Wangara Rd
Forrest Ct
Balmoral Ave
Spring St
George St
Talinga Rd
Google earth
Image © 2016 DigitalGlobe
N
100 m

FIGURE 9 - TEST LOCATION PHOTOGRAPHS



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Description	Site Photographs
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Photograph Date	3 July 2017
Data	19 July 2017	Project	Environmental Due Diligence

APPENDIX K

EQUIPMENT CALIBRATION RECORD

PID Calibration Certificate

Instrument PhoCheck Tiger
Serial No. T-111112

airmet

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	**Low**	**High**	**TWA**	**STEL**
	Settings	✓	50ppm	100ppm		
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No		Instrument Reading
PID Lamp		97ppm Isobutylene	NIST	ME358		97ppm

Calibrated by: **Hans Huysmans**

Calibration date: **29/06/2017**

Next calibration due: **26/12/2017**

APPENDIX L

HISTORICAL INFORMATION PROVIDED BY THE COUNCIL



DECEMBER 2016

GeoTech - contamination assessment



JANUARY 1981



Bayside CITY COUNCIL

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1970 Showing Battery Factory

16/01/2017

Scale 1:4514

Printed by Graeme Barnes

City of Sandringham

ALL COMMUNICATIONS TO BE
ADDRESSED TO THE TOWN CLERK
P.O. BOX 27, SANDRINGHAM, 3191
TELEPHONE: 598 8111
ENQUIRIES TO:

Mr G Dummett
TPO:TB:191

Municipal Offices,
Royal Avenue,
Sandringham, 3191

Dear Sir

26th March 1986

ESTABLISHMENT OF GOLF DRIVING RANGE
OLD TIP SITE, WANGARA ROAD RESERVE, SANDRINGHAM

The Council of the City of Sandringham supports the application by Eight Days per Week Pty Ltd to establish a Golf Driving Range on the above Council owned land as lessee to the Council.

The 3.3 ha of vacant land is reserved for Proposed Public Open Space under the Melbourne Metropolitan Planning Scheme. It adjoins the Cheltenham Cemetery and is opposite factories in a General Industrial Zone and the Sandringham green belt reserve.

The land was used as a Municipal Garbage Tip until 1968.

The proposal entails the construction of a 220m by 140m golf driving range. The total development will comprise -

- 46 golf driving bays, 20 under cover
- par 3 hole
- practice bunker
- night lighting
- night lighting
- parking for 90 cars
- mini golf area
- childrens playground
- putting green
- 215m² services building
- surround fencing
- surround landscaping

The administrative building will have a low form with extensive verandahs and incorporate toilets, storage areas, a kiosk, 40m² cafe, 40m² pro shop and an office.

Emphasis has been placed on the landscaping to provide screening for the golf range from the adjacent eastern cemetery and perimeter screen plantings, predominantly of signature plants of Sandringham area.

The screen fencing has been setback over 7.6m from the roadway and will be screened by plantings.

/2...

An area of some 0.4ha has been excised from north east and south western corners of the site for the purpose of this application to enable the Sandringham Small Bore Rifle Club to separately submit alternative applications for the establishment of a small bore rifle range.

The land will be occupied by the Eight Days per Week under a Ten Year Lease.

The proposal is considered to be generally consistent with the proposed reservation of the land for Public Open Space, to enable significant beneficial use to be made of this old tip site and to provide an important complementary golfing facility.

Your early consideration of this application would be appreciated.

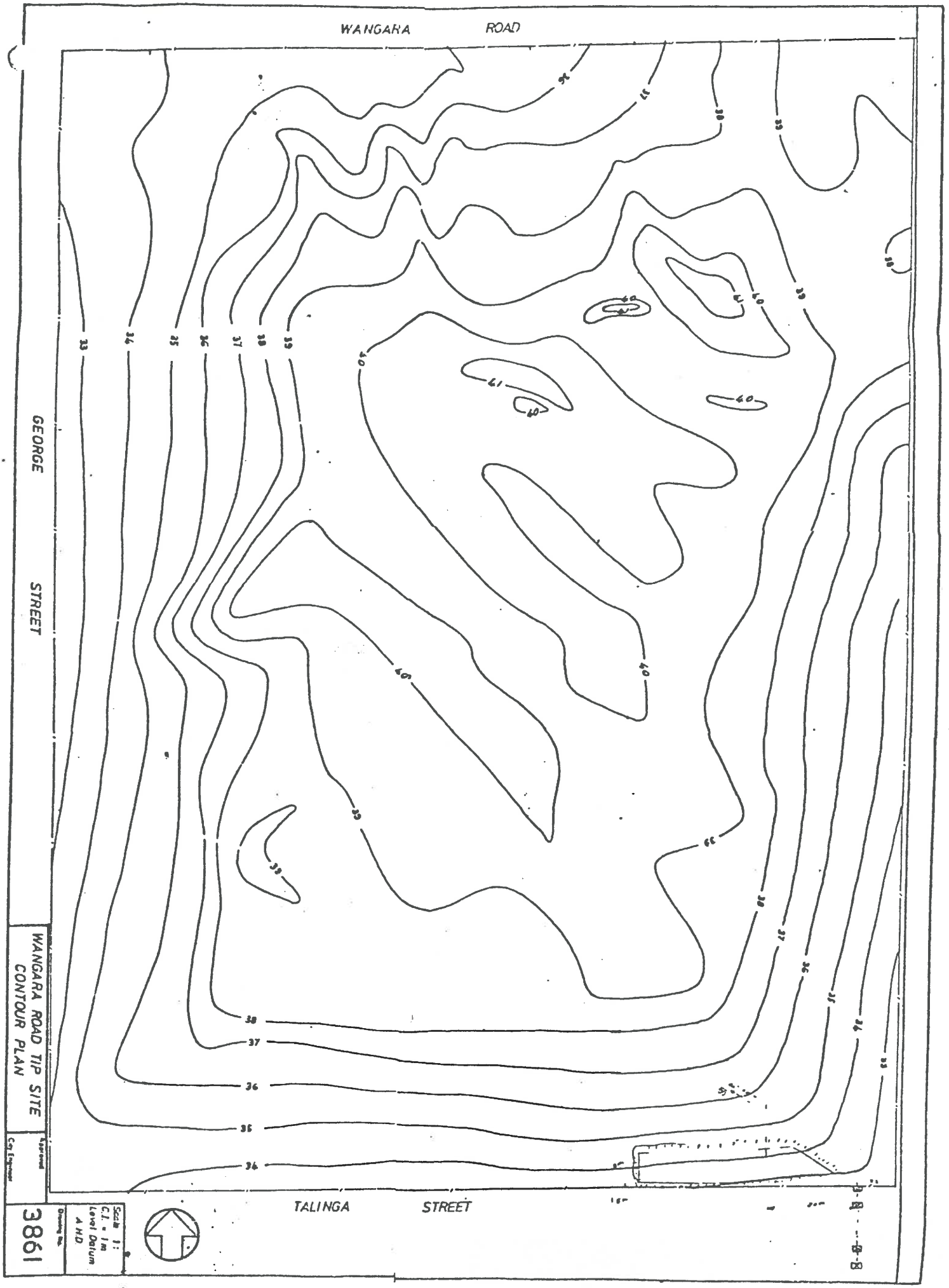
Yours faithfully

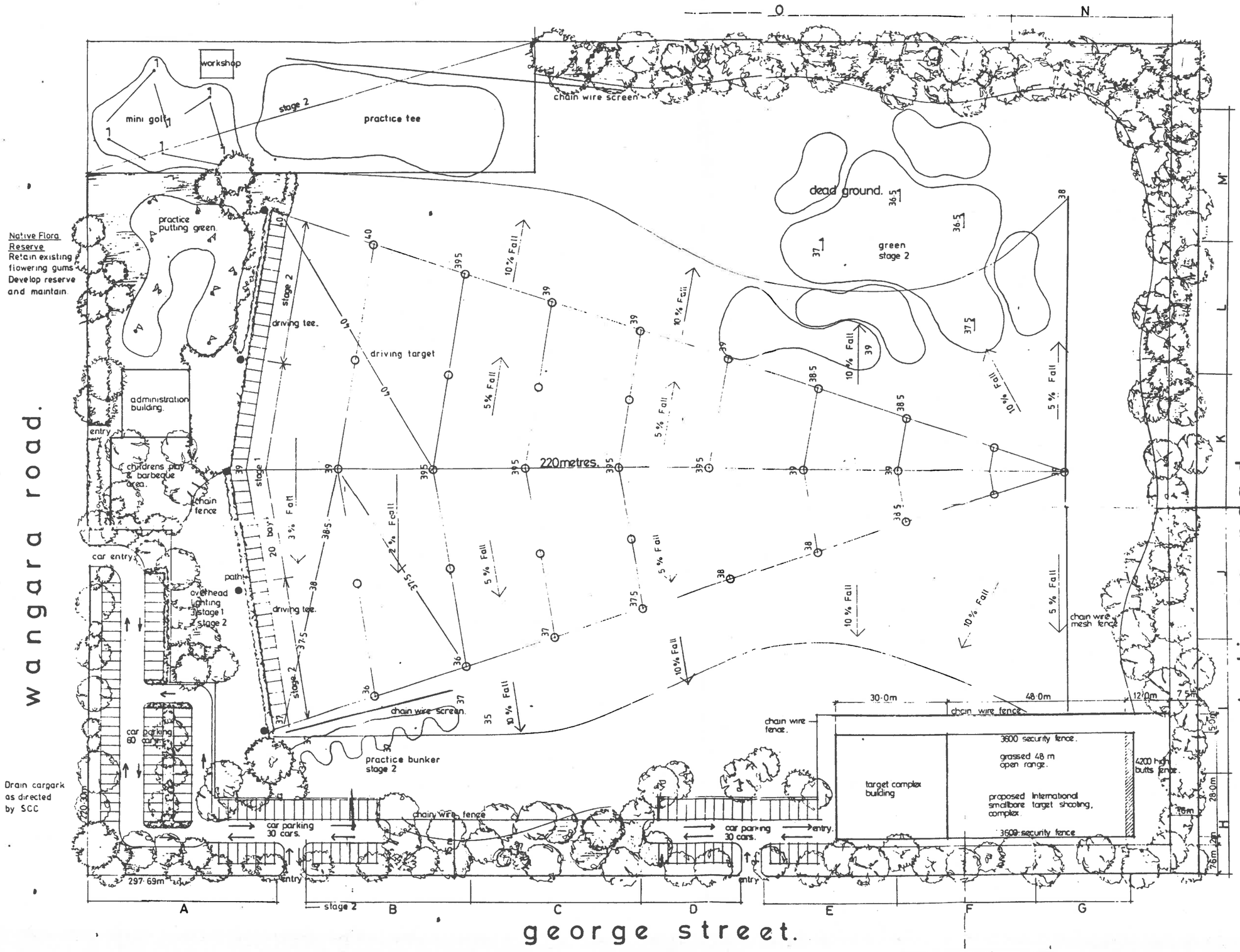
Mr P Anderson
Manager
Southern and Westernport Region
Ministry for Planning & Environment
Warrigal Road
MOORABBIN 3189

G C Barrow
CITY ENGINEER

copy to: Mr B Flynn
Eight Days a Week
1272 Dandenong Road
MURRUMBEENA 3163

CITY OF SANDRINGHAM





landscape schedule.

A	Eucalyptus	Maculata	Spotted Gum
B		Viminalis	Ribbon Gum
C		Calophylla	Pink-Flowered Man
D		Cladocalyx	Sugar Gum
E		Maculata	Spotted Gum.
F		Melliodorarosea	Pink Flowered Box
G		Cladocalyx	Sugar Gum.
H	Banksia	Integrifolia	Coastal Banksia
I	Eucalyptus	Leucoxylon Rosea	Pink Flowere White Ironbark
J		Sideroxylon Polons	Pink Flow Ironbark
K		Maculata	Spotted Gum
L		Cladocalyx	Sugar Gum
M		Citriodora	Lemon Scented G
N		Camaldulensis	River Red Gum
O		Maculata	Spotted Gum
		Gomphocephala	Tuart Gum

note
all car parking and paths coloured yellow on site are of a granitic sand surface

SYMBOL
- Plan Height 300 To 500 mm
- Plan Height 1 To 1·5m
- Plan Height 2 To 2·5m

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Contractors must set out all work and verify all conditions, levels and dimensions on site prior to commencement of any work or making of any shop drawing which must be submitted and approved prior to manufacture.
All work must be executed in accordance with the rules, by-laws, regulations and requirements of all authorities having jurisdiction over all or any part of the work.

AMENDMENT	ISSUE
a 27-2-85 relocate rifle range	
a 2-12-85 stage 2 details	

PROJECT.
golf driving range.

CLIENT
8 days a week

GRAEME AINLEY & ASSOCIATES PTY LTD
Consulting, Structural and Civil Engineers
1st FLOOR
31 MELROSE STREET
SANDRINGHAM, 3191
Telephone 598 3422 A.H. 598 5681

COMMITTEE OF WHOLE COUNCIL

Meeting held on Monday,
9th December, 1985
at 6.35 p.m.

PRESENT

Crs. Watson (Mayor), Bisset, Bottomley, Evans, Falloon, Merkus, Moller and Reynolds.

APOLOGIES

Cr. Hanlin.

e Sandringham
mall Bore Club

1. To further consider application by Sandringham Small Bore Rifle Club for Town Planning Permit in connection with lease of portion of the Wangara Road Reserve. (Referred from City Engineer's Report Clause 15, Council Meeting 6th November, 1985 following inspection Langwarrin Range).

Town Planning Officer's report is as follows:-

"Old Tip Site, Wangara Road, Sandringham
Proposed Rifle Range

Zoning:	Proposed Public Open Space.
Proposal:	Lease of 4,800m sq. of land for Small Bore Rifle range.
Parking:	30 spaces
Buildings:	28m by 28m 764m
Range:	20 stall, small bore, subsonic, baffled 50m long range.
Adjoining land uses:	Cheltenham Cemetery and factories opposite in industrial zone.
	Proposed lease of balance of site for golf driving range.

In 1981 after examination of many sites in Sandringham, Council leased the land to the Small Bore Rifle Club for 10 years to construct a new range.

In 1982 the Club carried out some preliminary earth works.

In 1983 the Cemetery advised of their concern and they undertook inspections of other ranges and surveyed cemetery users.

Committee of Whole Council (Cont'd)

Clause 1 (Cont'd)

In 1985 the Cemetery Trust advised Council they objected to the proposed rifle range. After inspecting the Geelong and Springvale ranges they are of the opinion that the noise from the range will be discernible in the cemetery causing distress to persons visiting graves. It is not anticipated there would be any conflict between funerals and the generally after hours shootings.

In August Council resolved to inspect a comparable facility before it decided whether to permit the rifle club to proceed with their permit application.

On Saturday the 9th November 1985 an inspection of the earth embankment Langwarrin Rifle range (situated adjacent to the Telecom Depot on the Langwarrin Reserve) indicated the noise from the rifle discharge was discernible outside the range at a distance of some 20 metres.

Whilst there was only one shooter and the volume of the noise was low, the sound was quite distinct.

With the installation of further baffles and a solid acoustic screen the sound levels could be further reduced, however it was agreed the sound will still be audible outside the range.

The Cemetery trust were more concerned by the nature and source of the noise, than volume or loudness of the sound.

At Wangara Road there are not any significant continuous intrusive industrial noises of sufficient volume that could effectively mask the sound of the shots.

Whilst the side mounding and on acoustic screens baffles could reduce the noise levels, it is probable that the noise will be audible in the western part of the cemetery.

This part of the cemetery was occupied mainly in the 1950's and 60's and does not appear to attract many visitors of a week-end.

Unless the S.S.B.R. Club are able to satisfy the Cemetery Trust that the sounds emanating from the range will not interfere with the peaceful, reverent attendance of persons visiting the cemetery on week-ends the Council should refuse its consent.

It is anticipated the rifle club will make a further submission to Council.

A further inspection was carried out by Councillors on Sunday 24th November 1985 at 9:30am.

Committee of Whole Council (Cont'd)

Clause 1 (Cont'd)

STAFF RECOMMENDATION

It is recommended that -

.1 Council note that the noise discharge will still be discernible in adjacent cemetery.

.2 The Small Bore Rifle Club be advised that on the basis of the serious concerns expressed by the Cemetery Trust after their inspections of the Springvale and Geelong ranges, and the sensitivity of the established Cemetery use, the Council would not favour the Small Bore Rifle Club proceeding with their proposed development of the site, because it appears unlikely that the Club can satisfactorily limit or modify their use to fully allay the concerns of the Cemetery Trust.

The Club be advised the Council is now of the view the use is incompatible and will detrimentally affect the use of of the adjoining land for cemetery purposes.

.3 The Cemetery Trustees be advised of this advice to the Rifle Club.

.4 The matter of the termination of their lease be considered by the Finance Committee.

.5 That although the staff do not know of any alternative sites of 4,800sq m in area that could be suitable for use by the Club.

Recommendation -

(1). That the report of the Town Planning Officer be received and the agreement with the Small Bore Rifle Club continue on the same basis as at present with the actual site for the range being discussed in the New Year at a meeting of Committee of Whole Council with representatives of the Rifle Club and the Golf Driving Range tenderer in attendance.

(2). That the Cemetery Trustees be advised accordingly.

Committee of Whole Council (Cont'd)

Clause 1 (Cont'd)

Cr. Bisset moved that the Clause be received and the recommendation adopted. Seconded by Cr. Merkus and carried.

re Golf Driving Range

2. To consider response from Eight Days a Week to matters raised in connection with tender submitted for Golf Driving Range lease.

Recommendation -

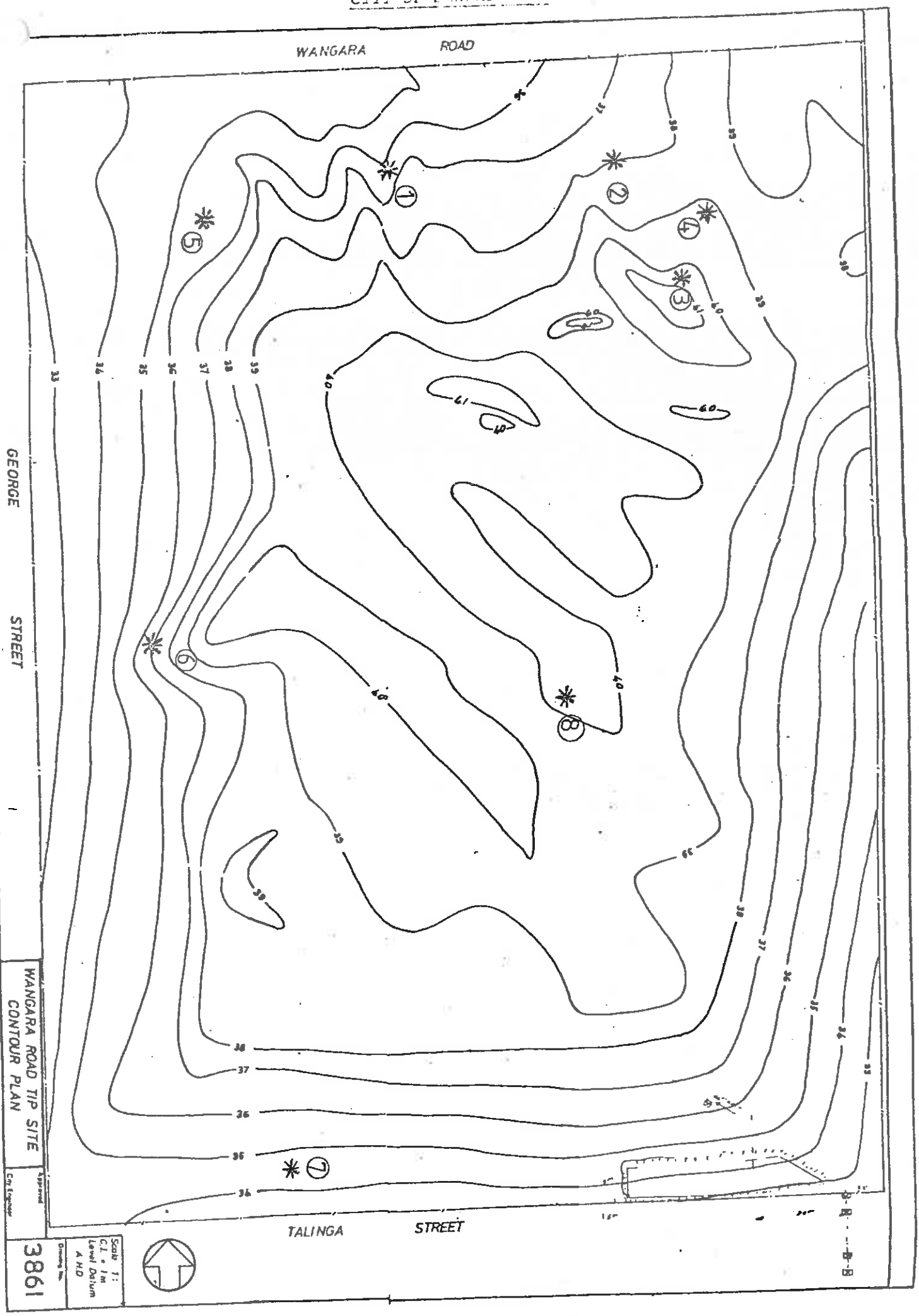
(1). That the oral reports from the City Engineer and Town Clerk on the responses from Eight Days a Week be received and the firm be advised that the revised proposal submitted is acceptable and the Council is prepared to defer signing of the lease document and the lodging of the final deposit, on a without prejudice basis, until such time as the necessary Town Planning and Building Permits are issued subject to the obtaining of the permits being purused in a diligent manner.

(2). That in connection with the application for the Town Planning Permit -

.1 the tenderer be requested to supply detailed landscaping and development plans to enable the Council as the owner of the land to consider giving its consent to such application,

.2 during the Christmas Recess the Town Planning Committee together with any other Councillor able to attend be given power to act in the matter.

CITY OF [illegible]



BORE HOLE LOCATIONS

EXCAVATOR SOIL TEST - OLD TIP SITE GEORGE STREET

- BOREHOLE LOG -

TEST PIT No. 3 LOG BY:- D. SUTCLIFFE DATE: 26/4/85

LEVEL FROM GROUND SURFACE DATUM OOC.		DISCRIPTION OF SOIL
		UNABLE TO BREAK THROUGH THE SURFACE - OLD 2" STONE (MACADAM) SURFACE HAS BEEN USED AS FILL.

BACKHOE SOIL TEST – OLD TIP SITE GEORGE STREET

– BOREHOLE LOG –

TEST PIT No. 4 LOG BY: D. SUTCLIFFE DATE: 29/4/85

ELEVEL FROM GROUND SURFACE DATUM 000.		DISCRIPTION OF SOIL
300		LOAMY TOPSOIL
500		WHITE COHESIONLESS SAND. – NATURAL MATERIAL LOOSE AND DRY
1500		BOTTOM OF TRENCH

BACKHOE SOIL TEST – OLD TIP SITE GEORGE STREET

– BOREHOLE LOG –

TEST PIT No. 1. LOG BY:- D. SUTCLIFFE DATE: 26/4/85

LEVEL FROM GROUND SURFACE DATUM 000.		DISCRIPTION OF SOIL
		SANDY LOAM
600		LAYER OF CLEAN FILL WITH SOME PLASTIC BAGS AND OLD SHOES, ETC.
1100		FILL – BROKEN BOTTLES, METAL, SOIL.
1800		BOTTOM OF TRENCH.

SOIL TEST - CLD TP

BOREHOLE LOG.

LOG BY: D. SUTCLIFFE DATE: 26/4/05

	DISCRIPTION OF SOIL
	SANDY TOPSOIL
	FILL MATERIAL - OLD BOTTLES, SOIL CONCRETE BLUESTONES. PLASTIC BAGS.
	TOP OF NATURAL SOIL
	NATURAL LIGHT COHESIONLESS SAND LOOSE AND DRY.
	BOTTOM OF TRENCH
100	

Emmanuel Ernest

From: Abraham Albatat <AAlbatat@bayside.vic.gov.au>
Sent: Monday, 24 July 2017 3:35 PM
To: Emmanuel Ernest
Subject: RE: Sandringham Golf Driving Range - Information Required
Attachments: 20 Wangara Road CHELTENHAM 3192 - New titles & parcels registered.pdf; Capture.PNG; Certificate of Title - Plan of Consolidation 164614Y - 20 ~ Sandringham Driving Range Leasee.pdf

Hi Emmanuel,

Please see attached copies of title for the property that I got from our database. They may not exactly be 'current' though but still relevant.

In regards to the current owner, Bayside Council is the owner who is leasing it out to a private leasee.

Regards,

Abraham Albatat | Drainage Assets Engineer
City Assets & Projects
Bayside City Council
76 Royal Avenue Sandringham VIC 3191
Tel 9599 4489 | Fax 9598 4474
Email aalbatat@bayside.vic.gov.au
www.bayside.vic.gov.au

From: Emmanuel Ernest [mailto:emmanuelernest@iprimus.com.au]
Sent: Monday, 24 July 2017 2:59 PM
To: Abraham Albatat <AAlbatat@bayside.vic.gov.au>
Subject: RE: Sandringham Golf Driving Range - Information Required

Hi Abrham

Do you have current Title of Sandringham Golf Range and Details of the Current owner for the Report.

Emmanuel Ernest

From: Abraham Albatat [mailto:AAlbatat@bayside.vic.gov.au]
Sent: Monday, 24 July 2017 11:04 AM
To: Emmanuel Ernest
Subject: RE: Sandringham Golf Driving Range - Information Required

Dear Emmanuel,

Please find attached a copy of the services plan for the above property.

A legend for the attached services plan is as follows:

Blue - Council stormwater drainage;
Brown - Sewer (assets maintained by South East Water);
Green - Melbourne Water drainage (pipes/canals);
Contours are also shown.

Regards,



HISTORY

- In 1985, Bruce Green identified a need for a golf practice facility in the Bayside area and came upon the disused tip area in Holloway Rd (now Wangara Rd)
- The 15 acre site was totally overgrown and littered with car bodies, rocks, massive overgrowth and the occasional tree
- About six months later the, then, Sandringham Council advertised for expressions of interest for the site to be developed for purposes including a golf practice range. The Council required all development costs to be borne by the successful tenderer.
- Bruce formed a syndicate comprising himself, Head Professional of Royal Melbourne Golf Club, Barry Flynn a marketing expert, Peter Williams the Course Superintendent at the Royal Melbourne Golf Club, and local businessman Stan Lenepvue ,who together with Bruce's mother Iris Green financed the project.
- Initial funds of $320,000 were invested in 1986 building driving bays and office facilities, totally levelling the site, growing grass and planting some 800 indigenous trees.
- Over the ensuing years, the facility grew in popularity and in 1994 was further developed by constructing a mini golf facility and upgrading the ball dispensing area. The total cost was $277,210.
- In late 1999, the Dunlop factory in George Street closed down and the site was sold for housing. Safety issues with the new housing forced the dismantling of the existing practice bays to re-align them. The opportunity was taken to construct covered "Driving Bays" and substantially upgrade the existing food and beverage dispensing area. A properly functioning Café/Restaurant, catering for the disabled which included wheelchair path and toilet facilities was constructed at a total cost of $1,148,643.
- The total capital investment in the Driving Range since its establishment in 1986 is over $2,000,000.
- The first ever Bayside Golf Academy was created at the driving range and still operates from there today under the banner of the Sandringham Golf Academy.

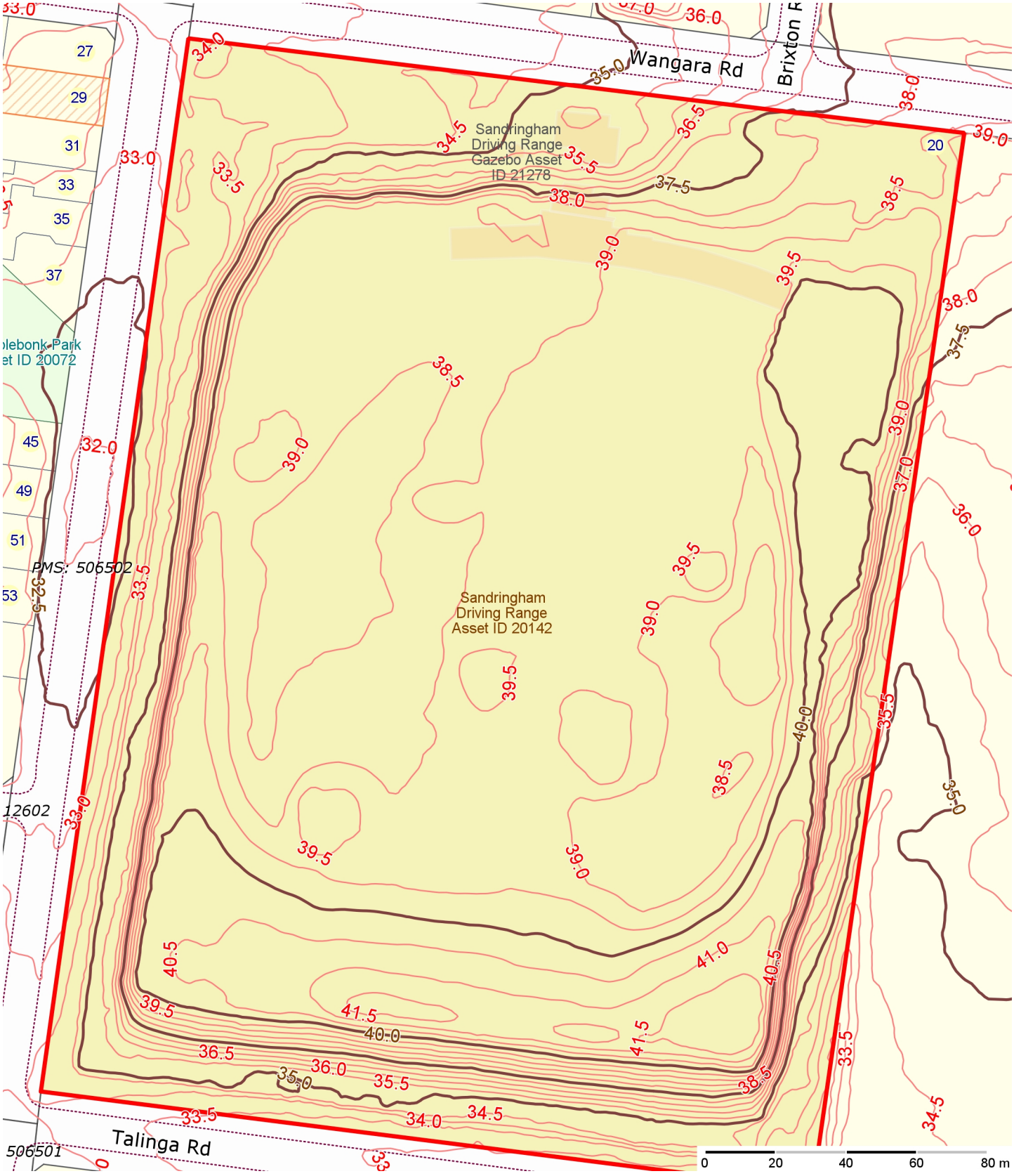


Humble Beginnings – Driving Range site in the beginning

APPENDIX M

REVIEW SITE AND REGIONAL CONTOUR MAP

FIGURE 10 - SITE CONTOUR MAP



Bayside City Council

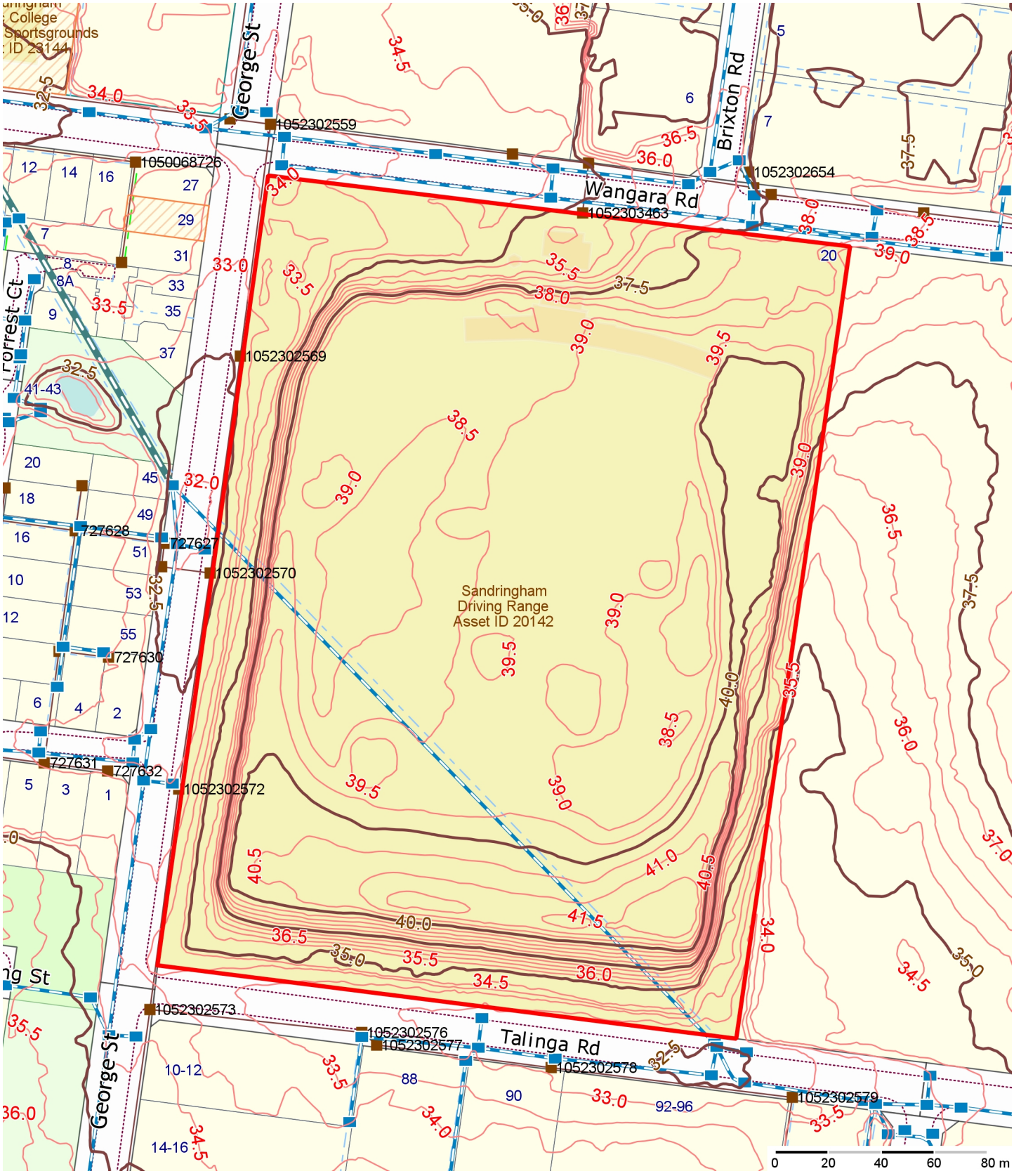
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24/07/2017

1:1500

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Abraham Albatat



Bayside City Council

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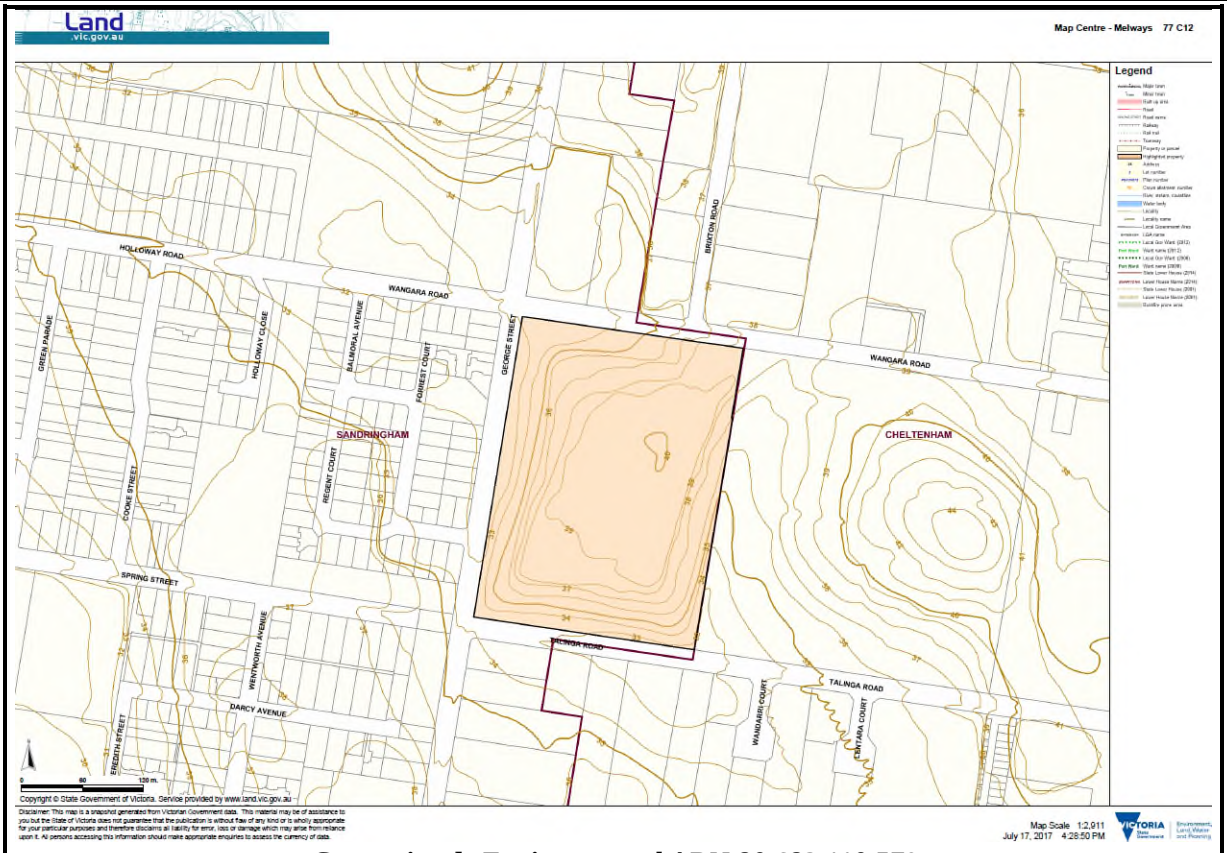
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24/07/2017

1:2000

Printed by
Abraham Albatat

FIGURE 11 - REGIONAL CONTOUR MAP



Geoaquitards Environmental ABN 80 683 110 579

Job Number	RM406-M.1	Map Description	Site Contour Map
Location	Sandringham Golf Driving Range (20 Wangara Road, Sandringham)	Source	Land Channel – Land.vic.gov.au
Date	19 July 2017	Project	Environmental Due Diligence

APPENDIX N
TITLE INFORMATION

Department of Sustainability and Environment

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REGISTER SEARCH STATEMENT Land Titles Office, Victoria Page 1

VOLUME 09965 FOLIO 822 Security no : 124054098351X
Produced 17/02/2015 11:33 am

LAND DESCRIPTION
Land in Plan of Consolidation 164614Y.
PARENT TITLES :
Volume 04156 Folio 189 Volume 05678 Folio 536 Volume 06979 Folio 743
Volume 07760 Folio 066 to Volume 07760 Folio 067
Volume 09749 Folio 227 Volume 09933 Folio 756
Created by instrument CP164614Y 01/08/1990

REGISTERED PROPRIETOR
Estate Fee Simple
Sole Proprietor
THE MAYOR COUNCILLORS AND CITIZENS OF THE CITY OF SANDRINGHAM
CP164614Y 01/08/1990

ENCUMBRANCES, CAVEATS AND NOTICES
CAVEAT M737357G 10/03/1987
Caveator
GOLF DRIVING RANGE (SANDRINGHAM) PTY LTD
Capacity SEE CAVEAT
Lodged by
AMBROSY & FOX
Notices to
AMBROSY & FOX of 417 MALVERN ROAD SOUTH YARRA 3141

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section

24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan or imaged folio set out under DIAGRAM LOCATION below.

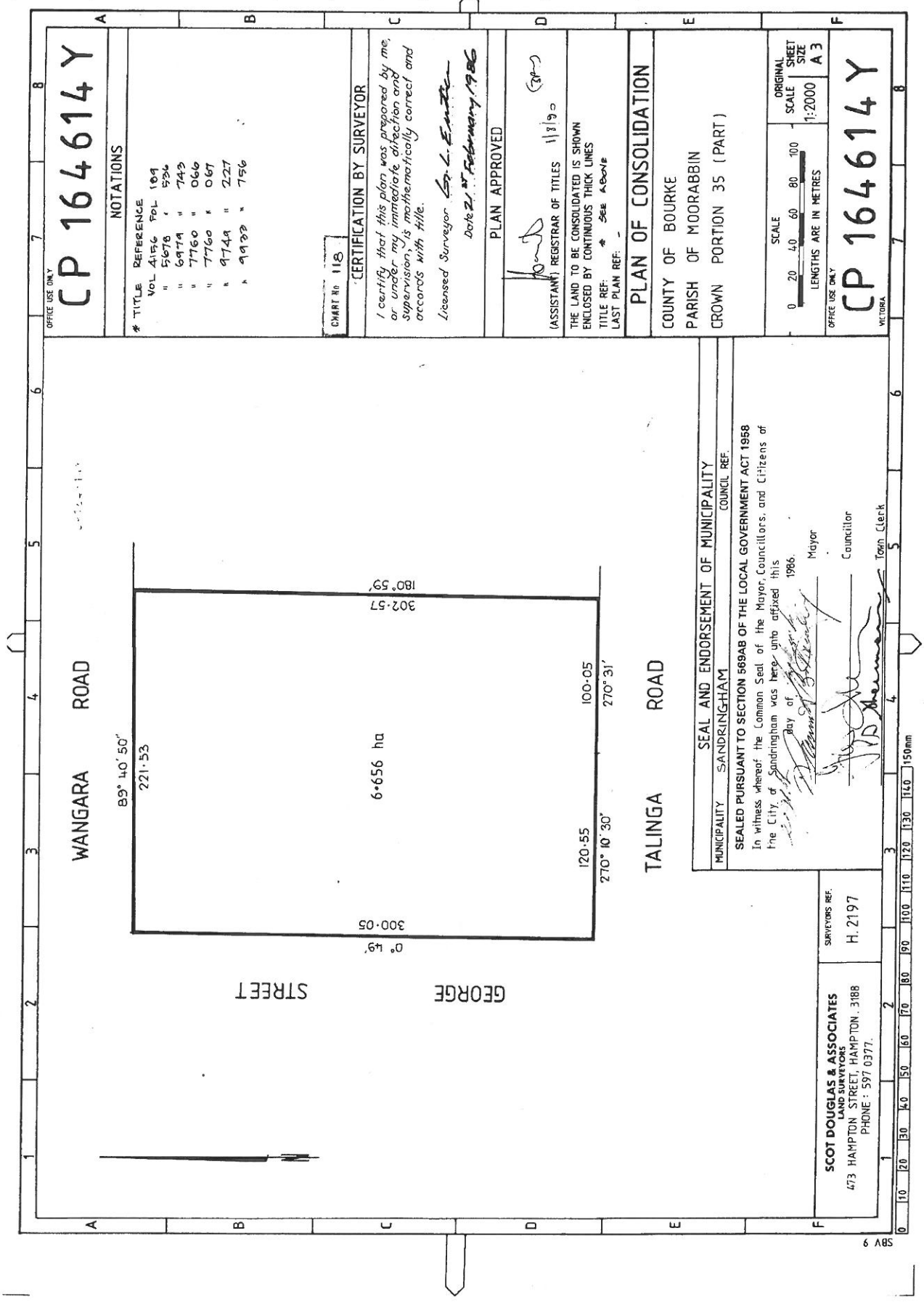
DIAGRAM LOCATION
SEE CP164614Y FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

DOCUMENT END

Delivered by LANDATA®. Land Victoria timestamp 06/03/2015 11:28
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Department of Transport, Planning and Local Infrastructure

17/06/2015

Bayside City Council

Re: Plan of Subdivision PS727384A (S)
Applicant Contact Ref: 9265N
Responsible Authority Ref: N/A, 15/5273
SPEAR Ref: S063899H

Please be advised that PS727384A was registered on 17/06/2015
New Titles (if any) have been allocated as follows.

Parent Title Details		New Title Details	
	Land Description	SPI	Vol/Fol
9965/822	Lot 1 on Plan of Subdivision 727384A.	1\PS727384	11578/207
	Lot 2 on Plan of Subdivision 727384A.	2\PS727384	11578/208

Chris McRae
Registrar of Titles

89166 — 20 WANGARA RD

LAND VICTORIA
Telephone: (03) 86362010
Email: subdivision.branch@dtpli.vic.gov.au

State Government Victoria

Signed by Council: Bayside City Council, PP Ref: N/A. Cert Ref: 15/5273. Original Certification: 06/05/2015, S.O.C.: 06/05/2015

PLAN OF SUBDIVISION

Under Section 35(8) of the Subdivision Act 1988

LV USE ONLY
EDITION 1

PS 727384A

Location of Land

Parish: MOORABBIN
Township: -
Section: -
Crown Allotment: -
Crown Portion: 35 (PART)

Title References: Vol. 9965 FoL. 822

Last Plan Reference: Land in CP 164614Y

Postal Address: GEORGE STREET
(At time of subdivision) SANDRINGHAM VIC 3191

MGA Co-ordinates: E 326 960 Zone 55
(of approx. centre of plan) N 5 796 870 GDA94

COUNCIL NAME : BAYSIDE CITY COUNCIL

A. This is a plan under Section 35(8) of the Subdivision Act 1988 which does not create any additional lots.

B. This plan is exempt from Part 3 of the Subdivision Act 1988

C. This is a plan under Section 35(8) of the Subdivision Act 1988 which creates(an) additional lot(s).

D. It is certified under Section 6 of the Subdivision Act 1988

E. It is certified under Section 11(7) of the Subdivision Act 1988.

F. Date of original certification under Section 6 / /2014

G. This is a statement of compliance under Section 21 of the Subdivision Act 1988.

Council delegate

Council Seal
Date / /

NOTATIONS

The land being subdivided is enclosed within thick continuous lines.

No land is to be acquired on the basis of this plan.

VESTING OF ROADS AND/OR RESERVES

IDENTIFIER	COUNCIL/BODY/PERSON
NIL	NIL

NOTATIONS

DEPTH LIMITATION DOES NOT APPLY

Staging
This is not a staged subdivision.
Planing Permit No.

Survey: This plan is based on survey.

This survey has been connected to Permanent Marks no(s). 150, 152, 153 & 302
in Proclaimed Survey Area No. -

EASEMENT INFORMATION

LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)

Easement Reference	Purpose	Width (Metres)	Origin	Land Benefited/In Favour Of
E-1	DRAINAGE	3m	THIS PLAN	BAYSIDE CITY COUNCIL

WARNING - Any use of or reliance on the information in this document is at your own risk. It no longer has any legal status. For details of the current document you should make inquiries at Land Victoria.

Hellier McFarland
Development Consultants Town Planners Land Surveyors
342 Hawthorn Rd, Caulfield South, VIC 3162
Tel: 03 9532 9951 Fax: 03 9532 9941
www.hmf.com.au | info@hmf.com.au

GAD REF: P265N_1C.dwg
COMPS REF: 9265N 2014-03-14 SURROUND.sss

DIGITALLY SIGNED BY LICENSED SURVEYOR:
ROHAN MICHAEL BAKKER

REF 9265N/1 VERSION C

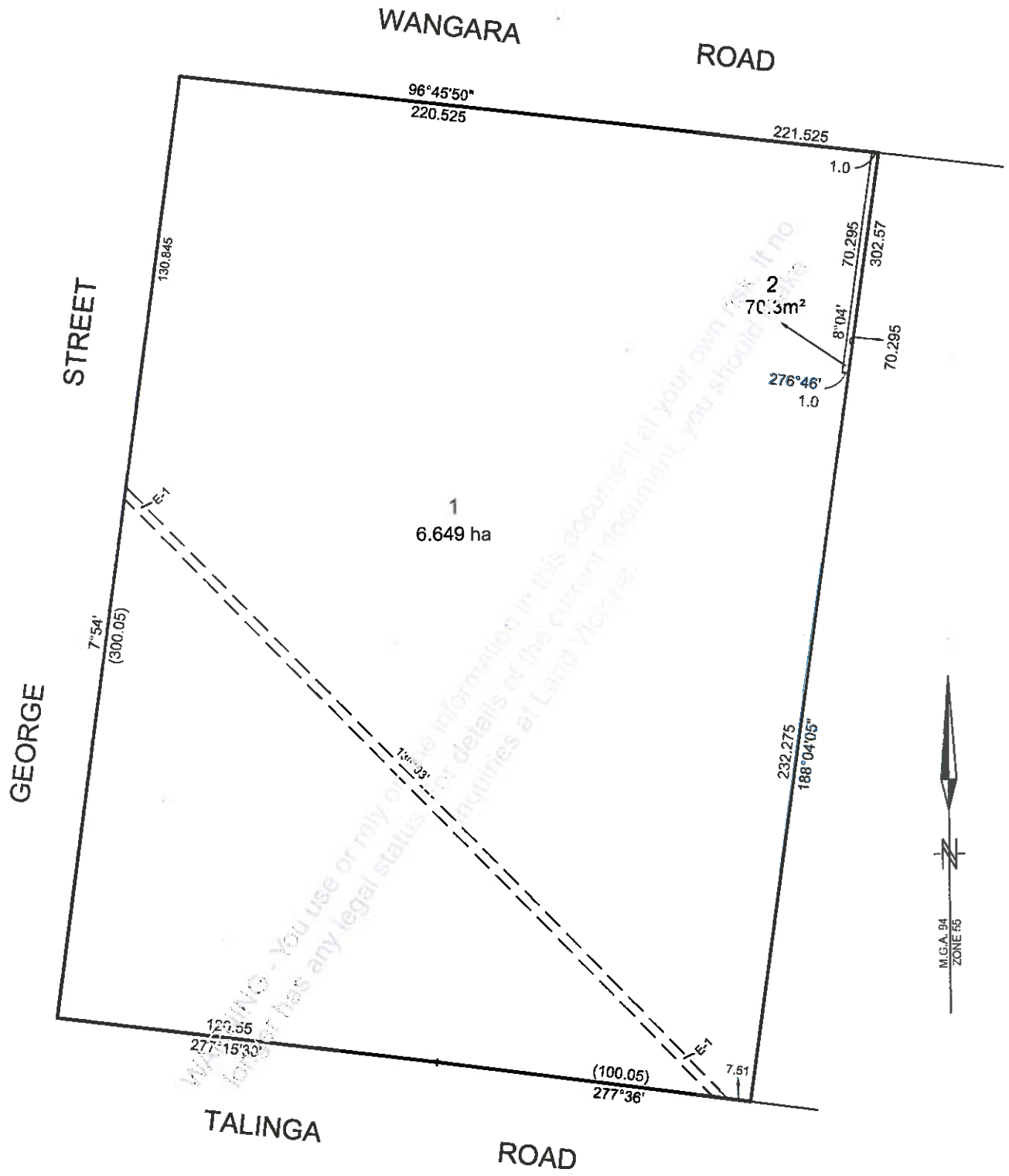
Sheet 1 of 2 Sheets
ORIGINAL SHEET SIZE A3

LV USE ONLY
PLAN REGISTERED
TIME .
DATE / /
Assistant Registrar of Titles

Signed by: Rohan Michael Bakker (Hellier McFarland) Surveyor's Plan Version (C) SPEAR Ref: S063899H 21/04/2015

Signed by Council: Bayside City Council, PP Ref: N/A, Cert Ref: 15/5273, Original Certification: 06/05/2015, S.O.C.: 06/05/2015

PS 727384A



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SCALE
12.5 0 12.5 25 37.5 40
LENGTHS ARE IN METRES

ORIGINAL SCALE 1:1250

Sheet 2
ORIGINAL SHEET SIZE A3

DIGITALLY SIGNED BY LICENSED SURVEYOR:
ROHAN MICHAEL BAKKER

REF 9265N/1 VERSION C

COUNCIL NAME : BAYSIDE CITY COUNCIL
COUNCIL REF : -

CAD REF: 92F5N_1C.dwg
COMPS REF: 9265N 2014-03-14 SURROUND.sse

Signed by: Rohan Michael Bakker (Hellier McFarland) Surveyor's Plan Version (C) SPEAR Ref: S063899H 21/04/2015