Environmental Assessment

2-120 Mollers Lane, Leopold

Prepared for:
Mollers Lane Developments Pty Ltd
PAMAS Property Pty Ltd
Mollers Lane Holdings Pty Ltd

Environmental Site Assessments

office@esagroup.com.au | 03 5221 8136 | www.esagroup.com.au

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Environmental Site Assessments Pty Ltd
PO Box 3106
Waurn Ponds 3216
Phone: 03 5221 8136

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1.0 INTRODUCTION

Environmental Site Assessments Pty Ltd ('ESA') was engaged by Mollers Lane Developments Pty Ltd, PAMAS Property Pty Ltd and Mollers Lane Holdings Pty Ltd ('the Client') to undertake an Environmental Assessment at 2-120 Mollers Lane, Leopold ('the Site'). The client intends to develop the site for medium residential land use under the Geelong Planning Scheme.

The intention of the Environmental Assessment is to determine whether the site is potentially contaminated.

Potentially contaminated land is defined in Ministerial Direction No. 1 – Potentially Contaminated Land, as land used or known to have been used for industry, mining or the storage of chemicals, gas, wastes or liquid fuel (if not ancillary to another use of land). This practice note also deals with land that may have been contaminated by other means such as by ancillary activities, contamination from surrounding land, fill using contaminated soil or agricultural uses.

Ministerial Direction No. 1 – Potentially Contaminated Land (Direction No. 1) requires planning authorities when preparing planning scheme amendments, to satisfy themselves that the environmental conditions of land proposed to be used for a sensitive use (defined as residential, child-care centre, pre-school centre or primary school), agriculture or public open space are, or will be, suitable for that use.

1.1 Project Understanding and Objectives

An Environmental Assessment is the collection and assessment of information derived from records of its previous use (preliminary study) and a site inspection coupled with soil sampling.

Soil sampling is carried out to:

(a) Produce evidence through an investigation to indicate whether a site is potentially contaminated; and

(b) Determine whether further intrusive investigations are required or whether the soils are fit for their intended use.

1.2 Scope of Work Undertaken

Based on the project understanding and objectives described above, ESA undertook the following scope of works:

- The collection of historical information about the site uses to assist in determining their potential for contamination.
- The collection of geological, hydrogeological and other relevant information about the site and its surroundings.
- A physical inspection of the site.
- A review and inclusion of details relating to previous investigations undertaken on site.
- A soil sampling program.
- A report of the findings and conclusions.

2.0 SITE DESCRIPTION AND ENVIRONMENTAL SETTING

2.1 Site Details

The following table summarises the relevant details that describe the site.

Site Address	2-120 Mollers Lane, Leopold
Current Site Owners	2-20 Mollers Lane: Allcard Pty Ltd 22-30 Mollers Lane: Mollers Lane Holdings Pty Ltd 32-40 Mollers Lane: Lutheran Church of Australia Victorian District 42-90 Mollers Lane: Glyn McMillan Jones and Linda Jones 92-120 Mollers Lane: Paul Joseph Masek
Current Title Volumes/Folios	2-20 Mollers Lane: Volume 9208 Folio 879 & Volume 9225 Folio 576 22-30 Mollers Lane: Volume 8643 Folio 237 32-40 Mollers Lane: Volume 9072 Folio 030 42-90 Mollers Lane: Volume 10252 Folio 153 92-120 Mollers Lane: Volume 10401 Folio 393
Municipality	Greater Geelong

Current Land Use Zonings	Farming Zone (FZ)
Overlays	2-20 Mollers Lane: None 22-30 Mollers Lane: None 32-40 Mollers Lane: None 42-90 Mollers Lane: Significant Landscape Overlay SLO10 92-120 Mollers Lane: Significant Landscape Overlay SLO10
Current Site Uses	Farming, church and residential properties
Lot and Plan Numbers	2-20 Mollers Lane: Lot 1 TP167626 22-30 Mollers Lane: Lot 2 LP74593 32-40 Mollers Lane: Lot 1 LP113935 42-90 Mollers Lane: Plan PC353398 92-120 Mollers Lane: Lot 1 TP11676
Area of Site (Approx.)	392,600 m^2

2.2 Current Use

The site is currently being used as follows:

2-20 Mollers Lane, Leopold	Crop farming paddock.
22-30 Mollers Lane, Leopold	Residential; house, shed, gardens and small paddock with horses.
32-40 Mollers Lane, Leopold	Church Property; church building, toilet block and grounds.
32A Mollers Lane, Leopold	Telecommunications compound.
42-90 Mollers Lane, Leopold	Crop farming paddocks, dams and shed.
92-120 Mollers Lane, Leopold	Crop faming paddocks, residential building and sheds.

2.3 Surrounding Land Use

North	Bellarine Highway followed by low density residential buildings.
South	Farming land.
East	Farming land.
West	Low density residential buildings and farming land.

2.4 Relevant Planning Information

Under the Greater Geelong planning scheme, the site is currently zoned as Farming Zone ('FZ'). A planning report sourced from the Department of Planning and Community Development (www.dpcd.vic.gov.au/planning) is included in **Appendix 1.**

According to information available from Land Victoria (www.land.vic.gov.au) the site is not currently subject to the requirements of an Environmental Audit Overlay (EAO) but does have a Significant Landscape Overlay (SLO) attached to it.

2.4.1 Significant Landscape Overlay

According to the Greater Geelong planning scheme "Schedule 10 to the Significant Landscape Overlay" applies to the site. This document is attached to **Appendix 1**.

2.4.2 Effect of Significant Landscape Overlay on Assessment, Remediation and Development

There will be an effect on development of the site. All future development must meet the requirements of the Significant Landscape Overlay, which applies to the site.

2.5 Regional Geology

A review of the GeoVic website (http://er-info.dpi.vic.gov.au/) indicates that the site geology is Moorabool Viaduct Sand (Nbm) – Neogene – Sedimentary (Marine) – Gravel, Sand and Silt. The geology map is attached to **Appendix 2**.

2.5.1 Potential Acid Sulphate Soils

According to ASRIS (www.asris.csiro.au) there is a low probability of Acid Sulfate Soils ('PASS') at the site. The PASS map is attached to **Appendix 2**.

2.6 Regional Hydrogeology

A review of the "Visualising Victoria's Groundwater" website[1] provided information about groundwater in the vicinity of the site. This information is reproduced below in Table 2.6.

Depth to Upper Aquifer	10-20m BGL
TDS (mg/L)	1000 - 3,500 mg/L
Beneficial Use Segment	B
Water Table Beneficial Use (as per SEPP)	Maintenance of Ecosystems Potable Mineral Water Supply Agricultural, Parks and Gardens Stock Watering Industrial Water Use Primary Contact Recreation Buildings and Structures
Surface Elevation above sea level (m AHD)	25.43

Table 2.6

According to the VVG website, there are 10 groundwater bores within a 2km radius of the site. The reports for each of these bores are in **Appendix 3**.

The wells are used for the following purposes:

- Domestic
- Stock
- Groundwater Investigation
- Observation
- General Geological.

According to the VVG website, only one bore had information regarding water quality:

Agent	Bore ID	Distance/Direction from Site	Details
FedUniSpatial Bores	UB_LP1	2.2km southeast of site	• Drilled to 3.0m BGL. • Groundwater investigation and observation. • Screened from 1.5 – 3.0m BGL. • Electrical Conductivity = 8.92 mS/cm • pH = 6.93

[1] http://maps.cerdi.com.au/vvg

Agent	Bore ID	Distance/Direction from Site	Details
			• Alkalinity = 3.61 meq/L • Bicarbonate = 220.0 mg/L • Calcium = 84.0 mg/L • Chloride = 3200 mg/L • Potassium = 35.0 mg/L • Sodium = 1500.0 mg/L • Sulphate = 360.0 mg/L • Magnesium = 160.0 mg/L

According to the Victorian Water Resources website[2], the groundwater region lithology is Sand, Gravel and Silt.

2.7 Nearest Surface Water Bodies

The following surface water bodies are present on site:

- Two dams near the northern boundary of 42-90 Mollers Lane.
- A shallow slow moving creek flowing south east in the southern portion of 92-120 Mollers Lane.
- A small shallow dam along the creek course in the south east corner of 92-120 Mollers Lane.

Other surface water bodies in the vicinity of the site are:

- A dam on a neighbouring property immediately to the west of 92-120 Mollers Lane.
- Lake Connewarre, 1.0km to the south

2.8 Groundwater Flow Direction

Based on the contours of the surrounding land from the Victorian Water Resources website[3], the inferred groundwater flow direction is likely to be to the southeast (towards Lake Connewarre). The contour map for the site is attached to **Appendix 4**.

2.9 Previous Investigations

Two previous investigations have been undertaken on parts of the site to date. The reports of these investigations are attached to **Appendix 5** of this report. The analytical results obtained from the investigations have been included in the comparison tables referred to in Section 7.1.

The investigations were documented in the following reports:

Environmental Site Assessments Pty Ltd ('ESA') – Report ESA/160/2015 – Limited Due Diligence Report - 42-90 Mollers Lane, Leopold – 31 August 2015

ESA was engaged by TGM Group to undertake the following works:

- Collection of soil samples from ten locations and submission to a NATA accredited laboratory for analysis of contaminants of potential concern.
- Production of a report comparing the analytical results with the NEPM guidelines[3] for residential use.
- All results were below the upper thresholds of HIL A for low density residential use. No comparison was required against HSLs, ESLs or Management Limits based on the results.
- All of the soil samples analysed were suitable for use in a conventional residential setting in line with ASC NEPM (1999, Amended) guidelines.
- Based on the results it was concluded that the site was suitable for its intended use as a residential property.

Environmental Site Assessments Pty Ltd ('ESA') – Report ESA/189/2015 – Limited Due Diligence Report - 2-20, 22-30 Mollers Lane, Leopold – 15 October 2015

ESA was engaged by TGM Group to undertake the following works:

- Collection of soil samples from ten systematic grid based and two targeted locations and submission to a NATA accredited laboratory for analysis of contaminants of potential concern.
- Production of a report comparing the analytical results with the NEPM guidelines for residential use.
- All results were below the upper thresholds of HIL A for low density residential use. No comparison was required against HSLs, ESLs or Management Limits based on the results. All of the soil samples analysed were suitable for use in a conventional residential setting in line with ASC NEPM (1999, Amended) guidelines.

[2] http://nremap-sc.nre.vic.gov.au/MapShare.v2/imf.jsp?site=water

[3] National Environment Protection (Assessment of Site Contamination) Measure 1999 (As Amended)

- Based on the results it was concluded that the site was suitable for its intended use as a residential property.

3.0 SITE HISTORY REVIEW

3.1 Title Information

Copies of Title Information are contained in **Appendix 6** and summarised in Table 3.1 below.

Table 3.1

Property Description	Certificate of Title	Parent Title	Date	Details
Crown Allotment Seventeen Section One Parish of Moolap County of Grant	Volume 2770 Folio 982	No Record.	10/09/1900	Andrais Kranker Moller (Gardener)
			11/12/1933	Hebert Andrew Moller (Farmer)
			16/06/1965	William George Stinton (Nurseryman)
Crown Portions 16 Block One Parish of Moolap County of Grant	Volume 6067 Folio 349	No Record.	23/7/1937	George Alfred Wilson (Farmer) and Lillian May Wilson
			11/11/1943	Edward Percival Carroll (Farmer)
			09/02/1951	Lawrence Percival Carroll (Farmer)
Crown Portions sixteen and seventeen Block One Parish of Moolap County of Grant	Volume 6946 Folio 117	No Record.	27/07/1948	Frederick William Stinton (Nurseryman)
			05/08/1958	William George Stinton (Nurseryman) and Frederick Lionel Fincher
			11/11/1958	William George Stinton
Crown Portions 17 Block One Parish of Moolap County of Grant	Volume 8091 Folio 900	Volume 6946 Folio 117	27/7/1955	Frederick William Stinton (Nurseryman)
			09/02/1956	William George Stinton (Nurseryman)
Crown Portions 16 Block One Parish of Moolap Lot 4 on Plan of Subdivision No.29523	Volume 8211 Folio 396	Volume 6067 Folio 349	15/08/1958	William George Stinton of Claremont Nurseries and Frederick Lionel Fincher (Chartered accountant)
			11/11/1958	William George Stinton

Property Description	Certificate of Title	Parent Title	Date	Details
Crown Portions 16 and 17 Block One Parish of Moolap Lot 4 on Plan of Subdivision No.29523	Volume 8320 Folio 425	Volume 6946 Folio 117 Volume 8211 Folio 396	13/01/1960	William George Stinton of Claremont Nurseries
Lot 1 on Plan of Subdivision No. 74593 Parish of Moolap County of Grant	Volume 8643 Folio 236	Volume 2770 Folio 982	27/10/1966	William George Stinton (Nurseryman)
			23/11/1966	William George Stinton (Nurseryman), Archibald Russel Cuthbertson (Auctioneer), Harry Baker (Manager) and Albert Bellamy Bell (Director)
			12/2/1973	Howard John Turner (Gentleman) and Harold Burton (Manager)
Lot 2 on Plan of Subdivision No. 74593 Parish of Moolap County of Grant	Volume 08643 Folio 237	Volume 2770 Folio 982	27/10/1966	William George Stinton (Nurseryman)
			23/11/1966	Henricus Van De Liefvoort (Bricklayer) and Helena Arnolda Van De Liefvoort
			02/12/1997	Helena Arnolda Van De Liefvoort
			12/09/2005	Elizabeth Franciena Marsland
			22/10/2014	Mollers Lane Holdings Pty Ltd
Lot 3 on Plan of Subdivision No. 74593 Parish of Moolap County of Grant	Volume 8643 Folio 238	Volume 2770 Folio 982	27/10/1966	William George Stinton (Nurseryman)
Lot 2 on Plan of Subdivision No. 80614 Parish of Moolap County of Grant	Volume 08724 Folio 043	Volume 8643 Folio 238 Volume 8320 Folio 425 Volume 8091 Folio 900	07/02/1968	William George Stinton (Nurseryman)
			18/4/1968	Diemoulders Pty Ltd
Lot 1 on Plan of Subdivision No. 113935 Parish of Moolap County of Grant	Volume 09072 Folio 030	Volume 8724 Folio 043	24/01/1975	Diemoulders Pty Ltd
			29/01/1975	Lutheran Church of Australia Victorian District
Lot 1 on Title Plan 167626J (formerly known as part of Lot 1 on Plan of Subdivision 074593).	Volume 9208 Folio 879	Volume 8643 Folio 236	28/03/1977	Allcard Pty Ltd

Property Description	Certificate of Title	Parent Title	Date	Details
Lot 1 on Title Plan 167626J (formerly known as part of Lot 1 on Plan of Subdivision 074593).	Volume 9225 Folio 576	Volume 8643 Folio 236	01/06/1977	Coolroom Agencies Pty Ltd
			15/05/1984	Allcard Pty Ltd
Parish of Moolap being part Crown Portions 17 Block One	Volume 10080 Folio 342	No Record.	04/03/1992	Rimo Scapin, Edna Scapin and Robert Scapin
Parish of Moolap being part Crown Portions 17 Block One	Volume 10080 Folio 343	No Record.	04/03/1992	Rimo Scapin, Edna Scapin and Robert Scapin
Land in Plan of Consolidation 353398K.	Volume 10252 Folio 153	Volume 10080 Folio 342 Volume 10080 Folio 343	10/09/1996	Glyn McMillan Jones and Linda Jones
Lot 1 on Title Plan 011676Q.	Volume 10401 Folio 393	No Record.	15/11/2001	Paul Joseph Masek

3.2 Historical Aerial Photographs

A range of aerial photographs were viewed and observations relating to surrounding land use and the site are summarised in Table 3.2. The photos can be found in **Appendix 7**.

Table 3.2

Date	Run/Film/Frame	Observations
01/1947	ETIE/629/62	• Bellarine Highway established to the north of site. • All surrounding land used for farming or vacant. • 2-20 Mollers Lane appears to be crop farming land. • 22-30 Mollers Lane house and garden established in similar location to current day. • No structures at 32-40 Mollers Lane, trees on boundary are established. • Small buildings in similar location to current day shed at 42-90 Mollers Lane, no dams. • 92-120 Mollers Lane appears to be crop farming land, small structure in the northeast. Creek running southeast across site.
03/1963	29/1643/6	• Minimal changes on site. Dam established in the northeast corner of 42-90 Mollers Lane. A channel now runs from this dam southeast to another dam just offsite. • Suburban housing and streets the west (around Bellarine Highway) beginning to be established.
12/1970	6/2455/42	• Minimal changes on site. More trees established around the boundary of 2-20 Mollers Lane. Trees delineating paddock at 92-120 Mollers Lane. • Suburban housing to the west expanded.
05/1984	6/3872/94	• Church building now appears at 32-40 Mollers Lane. • Second dam now onsite at 42-90 Mollers Lane. • Group of structures now appear in the northeast corner of 92-120 Mollers Lane. A new dam now established in the south east corner. • Bellarine Highway widened.

Date	Run/Film/Frame	Observations
01/1990	6/4318/119	• No change on site.

3.3 Cathodic Protection Systems

A request was made through Energy Safe Victoria ('ESV') regarding the presence of Cathodic Protection Systems on site. A search of the ESV database has failed to identify any cathodic protection systems that have been registered at the site. The ESV response can be found in **Appendix 8.**

3.4 Dial Before You Dig Search

Dial before you dig information was requested for the site and is attached in **Appendix 9.**

Information suggests that:

- There is a gas main running along Moller Lane. Gas infrastructure enters 90-120 Mollers Lane from the east near the northern boundary of the site.
- There is water infrastructure on the eastern boundary of the site. A water main runs approximately east–west across the middle of 42-90 Mollers Lane.
- There is no sewer infrastructure servicing the site.
- There is underground electricity infrastructure entering the site at multiple locations on the eastern boundary.
- There is water drainage running north-south approximately through the middle of 22-30 and 32-40 Mollers Lane. There is a drainage line that enters 42-90 Mollers Lane in the northwest corner and runs southeast to the middle of the eastern boundary. Another drainage line runs approximately east-west across the middle of 42-90 Mollers Lane (same course as mater main).
- There is an Optus cable running along Mollers Lane and entering 32-40 Mollers Lane in the northeast corner (communication towers).
- There are Telstra cables running along Mollers Lane entering the site from east at 22-30, 32-40 (communications towers) and 92-120 Mollers Lane.

4.0 EPA RECORDS SEARCH

4.1 EPA Priority Sites Register ('PSR') Review

A review on 26 July 2016 of the EPA PSR dated 30 June 2016 indicated that no Clean Up or Pollution Abatement Notices (relevant to land and/or groundwater contamination) had been issued to the owner or occupier of the site. There were no properties in Leopold listed on the PSR.

4.2 Nearby Environmental Audit Reports

A review of EPA's list of Certificates and Statements of Environmental Audit on 26 July 2016 indicates that there have been no previous environmental audits on site. There have been no environmental audits conducted within 500m of the site.

4.3 EPA Prescribed Waste Database

A review of the EPA Prescribed Waste Database undertaken on 26 July 2016 indicates that there are no listed treaters or disposers in Leopold. There are no licensed waste transporters within 2km of the site.

5.0 SITE INSPECTION

Photographs taken during the site inspection are located in **Appendix 10**.

Land Parcel Site Inspection Details: 2-30 Mollers Lane, Leopold	
Date and Time of Inspection	22.7.16 14:00
Weather Conditions	Overcast
Current Site Uses	Residential, crop farming and horse paddock.
Previous Site Uses	Farming and residential.

Site Coverage incl. condition and type of ground cover, e.g. bare ground, asphalt, concrete, gravel, etc.	Pasture crop in northern paddock. Large grass area and large garden bed area in southern portion of site. Horse paddock west of house.
Current Adjacent Land Uses incl. the apparent condition of adjacent properties	Farming and residential.
Details of Structures on site incl. location and condition of all visible features, including foundations, positions of former buildings, tanks, pits, wells, drains and bores.	House and shed in central southern portion of site. Occupied and in good condition.
Process Details (in relation to current site use)	Crop farming in northern paddock.
Details of Chemical use incl. chemical storage and transfer areas, including the presence of waste or chemical containers	Presence of chemical and fuel containers in and outside shed.
Presence of above ground storage tanks	Nil apparent.
Presence of underground storage tanks	Nil apparent.
Presence of septic tanks	Nil apparent.
Details of waste handling	Nil apparent.
Evidence of burning of burying of waste	Small vegetation burning pile in horse's paddock.
Spill Incidents	Nil apparent.
Spill control systems, e.g. bund (materials of construction should be noted)	Nil apparent.
Locations of dispensing or fill points	Nil apparent.
Evidence of Fill Materials	Raised garden bed area.
Presence of any stockpiled material	Nil apparent.
Evidence of Scrap and industrial or chemical waste	Nil apparent.
Evidence of settlement, subsidence and disturbed ground	Nil apparent.
Evidence of on site or adjacent cut and fill activities or quarrying	Nil apparent.
Evidence of Contamination (discoloured soil, polluted water, affected plant growth)	Nil apparent.
Potential Asbestos containing material	Nil apparent.
Animal populations	Multiple horses in western paddock, rabbits on site.

Significant odours	Nil apparent.
Assessment of soil loss or deposition that has occurred in the past and evaluation of the future erosion potential	Nil apparent.
The direction of the flow of water run-off from the site and adjacent properties	Predominantly to the south.
The depth of any standing water, the direction and rate of flow of rivers, streams or canals, together with their flood levels and any tidal fluctuations	Nil apparent.
Transformers	Nil apparent.
General Notes	N/A

Land Parcel Site Inspection Details: 32-40 Mollers Lane, Leopold	
Date and Time of Inspection	22.7.16 13:00
Weather Conditions	Rain
Current Site Uses	Church and grounds.
Previous Site Uses	Farming land.
Site Coverage incl. condition and type of ground cover, e.g. bare ground, asphalt, concrete, gravel, etc.	Grass, gravel driveway and boundary tree coverage.
Current Adjacent Land Uses incl. the apparent condition of adjacent properties	Farming and residential.
Details of Structures on site incl. location and condition of all visible features, including foundations, positions of former buildings, tanks, pits, wells, drains and bores.	Church building and toilet block close to western boundary. Communication towers, small portable building and brick building fenced off in the north east corner of site.
Process Details (in relation to current site use)	Nil apparent.
Details of Chemical use incl. chemical storage and transfer areas, including the presence of waste or chemical containers	Nil apparent.
Presence of above ground storage tanks	Nil apparent.
Presence of underground storage tanks	Nil apparent.
Presence of septic tanks	Nil apparent.

Details of waste handling	Nil apparent.
Evidence of burning of burying of waste	Small vegetation burning pile in center of site.
Spill Incidents	Nil apparent.
Spill control systems, e.g. bund (materials of construction should be noted)	Nil apparent.
Locations of dispensing or fill points	Nil apparent.
Evidence of Fill Materials	Some gravelly fill around communication towers.
Presence of any stockpiled material	Nil apparent.
Evidence of Scrap and industrial or chemical waste	Nil apparent.
Evidence of settlement, subsidence and disturbed ground	Nil apparent.
Evidence of on site or adjacent cut and fill activities or quarrying	Nil apparent.
Evidence of Contamination (discoloured soil, polluted water, affected plant growth)	Nil apparent.
Potential Asbestos containing material	Nil apparent.
Animal populations	Rabbits.
Significant odours	Nil apparent.
Assessment of soil loss or deposition that has occurred in the past and evaluation of the future erosion potential	Nil apparent.
The direction of the flow of water run-off from the site and adjacent properties	Lowest point in the middle of site, then draining south in neighboring site.
The depth of any standing water, the direction and rate of flow of rivers, streams or canals, together with their flood levels and any tidal fluctuations	Nil apparent.
Transformers	Nil apparent.
General Notes	N/A

Land Parcel Site Inspection Details: 42-90 Mollers Lane, Leopold	
Date and Time of Inspection	22.7.16 13:00
Weather Conditions	Rain

Current Site Uses	Pasture crop farming.
Previous Site Uses	Farming land.
Site Coverage incl. condition and type of ground cover, e.g. bare ground, asphalt, concrete, gravel, etc.	Primarily pasture crops. Dirt/gravel roads, tree coverage at site and paddock boundaries. Two dams.
Current Adjacent Land Uses incl. the apparent condition of adjacent properties	Farming and residential.
Details of Structures on site incl. location and condition of all visible features, including foundations, positions of former buildings, tanks, pits, wells, drains and bores.	Shed located in center of site, average condition. Farming equipment, supplies and timer etc. stored inside and outside.
Process Details (in relation to current site use)	Crop farming.
Details of Chemical use incl. chemical storage and transfer areas, including the presence of waste or chemical containers	Presence of chemical containers in and outside shed.
Presence of above ground storage tanks	Small water tank next to shed.
Presence of underground storage tanks	Nil apparent.
Presence of septic tanks	Nil apparent.
Details of waste handling	Nil apparent.
Evidence of burning of burying of waste	Nil apparent.
Spill Incidents	Nil apparent.
Spill control systems, e.g. bund (materials of construction should be noted)	Nil apparent.
Locations of dispensing or fill points	Nil apparent.
Evidence of Fill Materials	Gravel road surface around and leading to shed.
Presence of any stockpiled material	Nil apparent.
Evidence of Scrap and industrial or chemical waste	Nil apparent.
Evidence of settlement, subsidence and disturbed ground	Nil apparent.
Evidence of on site or adjacent cut and fill activities or quarrying	Land leveled around shed area, pushed into small mounds surrounding sheds.
Evidence of Contamination (discoloured soil, polluted water, affected plant growth)	Nil apparent.

Potential Asbestos containing material	Nil apparent.
Animal populations	Rabbits on site.
Significant odours	Nil apparent.
Assessment of soil loss or deposition that has occurred in the past and evaluation of the future erosion potential	Nil apparent.
The direction of the flow of water run-off from the site and adjacent properties	Predominately in an easterly direction.
The depth of any standing water, the direction and rate of flow of rivers, streams or canals, together with their flood levels and any tidal fluctuations	Nil apparent.
Transformers	Nil apparent.
General Notes	N/A

Land Parcel Site Inspection Details: 92-120 Mollers Lane, Leopold	
Date and Time of Inspection	22.7.16 14:00
Weather Conditions	Overcast
Current Site Uses	Pasture crop farming and residential.
Previous Site Uses	Farming and residential. Large disused greenhouse area on site.
Site Coverage incl. condition and type of ground cover, e.g. bare ground, asphalt, concrete, gravel, etc.	Primarily pasture crops. Dirt/gravel roads, tree coverage at site and paddock boundaries. Buildings in north east portion of site.
Current Adjacent Land Uses incl. the apparent condition of adjacent properties	Farming and residential.
Details of Structures on site incl. location and condition of all visible features, including foundations, positions of former buildings, tanks, pits, wells, drains and bores.	Disused building complex in the north east corner of site, possibly a small school/kindergarten or community building. Average condition. Houses and shed, presently occupied. Good condition. Large disused greenhouse/nursery area. Poor condition. Farming related storage sheds.
Process Details (in relation to current site use)	Crop farming.
Details of Chemical use incl. chemical storage and transfer areas, including the presence of waste or chemical containers	Presence of chemical containers in and around sheds and disused greenhouses.
Presence of above ground storage tanks	Nil apparent.

Presence of underground storage tanks	Nil apparent.
Presence of septic tanks	Nil apparent.
Details of waste handling	Nil apparent.
Evidence of burning of burying of waste	Nil apparent.
Spill Incidents	Nil apparent.
Spill control systems, e.g. bund (materials of construction should be noted)	Nil apparent.
Locations of dispensing or fill points	Nil apparent.
Evidence of Fill Materials	Nil apparent.
Presence of any stockpiled material	Nil apparent.
Evidence of Scrap and industrial or chemical waste	Abundant scrap and rubbish west of greenhouse/nursery area, around sheds.
Evidence of settlement, subsidence and disturbed ground	Nil apparent.
Evidence of on site or adjacent cut and fill activities or quarrying	Nil apparent.
Evidence of Contamination (discoloured soil, polluted water, affected plant growth)	Nil apparent.
Potential Asbestos containing material	Nil apparent.
Animal populations	Rabbits on site.
Significant odours	Nil apparent.
Assessment of soil loss or deposition that has occurred in the past and evaluation of the future erosion potential	Nil apparent.
The direction of the flow of water run-off from the site and adjacent properties	Predominantly to the south east.
The depth of any standing water, the direction and rate of flow of rivers, streams or canals, together with their flood levels and any tidal fluctuations	Very shallow slow moving creek flowing south east in the southern portion of the site.
Transformers	Nil apparent.
General Notes	N/A

5.1 Potential Contamination Sources

Potential sources of contamination on-site have been identified based on the historical information and site inspection observations documented in this report. They are listed in the following sections.

5.1.1 On-site "Contaminants of Concern"

Source	Contaminants of Concern
Fertilisers/Herbicides	Copper, Boron, Cadmium Arsenic, Mercury, Organochlorines, Organophosphates
Fuels/Oils/Vehicle Maintenance	Hydrocarbons, Phenols, Metals, Solvents, Acids/Alkalis Refrigerant – Chlorofluorocarbons, Hydrochlorofluorocarbons, Hydrofluorocarbons Antifreeze - Ethylene Glycol, Nitrates, Phosphate, Silicates Battery Storage - Lead-acid battery storage and handling may have led to leakage of contaminants such as Lead (mainly), Zinc, Nickel and Cadmium.

5.1.2 Off-site "Contaminants of Concern"

There are no known off-site processes that may have caused soil contamination at the site.

6.0 SOIL INVESTIGATION PROGRAM

A systematic sampling pattern (VP01-VP62) was used for the soil validation program. This approach involved regularly spaced grid-based sampling points within a rectangular grid pattern.

This approach is to be used for the following reasons:

- There is a lack of bias if the first sampling point is determined randomly
- There is no clustering of sampling points and

The location of the grid based sampling points are shown in **Appendix 11**.

Targeted samples were also collected around buildings, sheds and other areas of potential concern.

Samples were not collected across lithological boundaries.

6.1 Analyses Narrative

6.1.1 Grid Based Sampling

Surface (0-0.15m) and subsurface (0.15-0.3) samples were collected from 41 sampling points (VP01-VP04, VP09, VP14-VP18, VP20-VP26, VP32, VP34-VP35, VP37, VP39, VP42, VP45-VP62) in a systematic grid pattern across the site on 21 and 22 July 2016 to gather further information regarding the chemical composition of the site soils. The grid-based system is shown in **Appendix 11**.

The collected samples were analysed for either of the following COPC's:

- Contaminants listed in National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended) Schedule B1, Table 1A (1)
- OC/OP Pesticides and 15 metals

6.1.2 Targeted Sampling

Surface (0-0.15m) and subsurface (0.15-0.3) samples were collected from 21 sampling points (VP05-VP08, VP10-VP13, VP19, VP27-VP31, VP33, VP36, VP38, VP40-VP41 and VP43-VP44) across the site on 21 and 22 July 2016 to gather further information regarding the chemical composition of soils around buildings, sheds and other areas of potential concern. The target based samples are shown in **Appendix 11**.

The collected samples were analysed for either of the following COPC's:

- Contaminants listed in National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended) Schedule B1, Table 1A (1)

- OC/OP Pesticides and 15 metals
- TRH C6-C40, BTEXN, PAH and 8 metals

No bore logs were completed for the sampling as all samples collected were from the surface.

The soils observed on site consisted of:

SILTY SAND: Dark Brown/Grey, Medium Dense, Fine to Medium Grain, Firm, Moist.

Or

SANDY SILT. Dark Brown/Grey, Low Plasticity, Firm, Moist.

6.2 Soil Sampling Program

The Environmental Assessment soil sampling program detailed in Section 7.0 was undertaken on site on 21 and 22 July 2016.

The following sections describe the guidelines, standards and investigation methods adopted for the soil sampling programs.

6.3 Relevant Guidelines and Standards

The sampling program was undertaken in accordance with the following guidelines, standards and policies:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- Australia Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999).
- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended)
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002

6.4 Quality Assurance / Quality Control

6.4.1 Environmental Site Assessments Quality Assurance (QA) Program

Environmental Site Assessments has developed and implemented a Quality Assurance Program in general accordance with the following guidelines:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- National Environment Protection Council (NEPC) - National Environment Protection (Assessment of Site Contamination) Measure (NEPM) - Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils, 1999 (Amended).

As part of the Quality Assurance Program, Environmental Site Assessments ensures that the following methodology is employed:

- The use of appropriately qualified and trained environmental scientists to perform intrusive works.
- The use of standardised field sheets to record the findings of the site investigations.
- The collection and analysis of Quality Control samples as per AS 4482.1.
- The use of Chain of Custody procedures to ensure that sample integrity is maintained through the transport and handling stages.
- Only using NATA accredited laboratories for the analysis of samples collected during the investigation activities.

As per the Environmental Site Assessments Quality Assurance Program, the following data quality indicators were used for the assessment of the laboratory analytical data:

- All sample analysis to be conducted using NATA registered methods in accordance with NEPM 1999 (Amended) guidelines.
- Laboratory method blank analysis required to be below the Limit of Reporting (LOR).
- Surrogate compound concentrations required to be spiked at similar concentration to sample result.

6.4.2 Environmental Site Assessments Quality Control ('QC') Program

The overall precision of field quality control samples, laboratory split samples and laboratory duplicates is generally assessed by their Relative Percentage Difference ('RPD'), given by:

$$\frac{(C1 - C2)\ x\ 100}{\frac{(C1 + C2)}{2}}$$

Where:

C1 is the primary sample concentration.

C2 is the duplicate sample concentration.

The RPD of duplicated analysis were calculated and compared to the following criteria for acceptability:

- Less than 50% for field quality control samples
- Less than 30% for laboratory duplicates where the detection is less than 10 times the LOR
- Less than 20% for laboratory duplicates where the detection is greater than 10 times the LOR
- RPDs for control spike duplicates will be compared to an acceptable limit of 20%
- RPDs for matrix spike duplicates will be compared to an acceptable limit of 20%, and
- Percentage recoveries of control spikes and matrix spikes will be compared to an acceptable range of 70% – 130%. Where this range is exceeded, reference to the laboratories internal data quality objective limits will be made. In addition, percentage recoveries of surrogates will also be compared to the USEPA surrogate recovery limits.

6.4.3 Field Quality Control Samples

6.4.3.1 Field Blanks

One field blank was collected at the beginning of each days sampling to evaluate whether contaminants had been introduced into the samples during the sampling due to contamination from sample containers. Field blank samples were obtained by pouring deionised water into a sampling container at the first sampling point. QC01 – 21 July 2016 and QC12 – 22 July 2016 were analysed for OC/OP Pesticides, Total Recoverable Hydrocarbons and 15 Metals.

The field blanks were preserved and packaged, and sealed in the manner described for the environmental samples. A separate sample number was assigned to each sample.

6.4.3.2 Trip Blanks

Trip blanks (QC06, QC07, QC08, QC09, QC10, QC15, QC16 and QC17) were prepared to evaluate if the transport and handling procedures had introduced contaminants into the samples, and if cross contamination in the form of VOC migration had occurred between the collected samples. One trip blank was included in each of the cooler boxes being transported to and from both the primary and secondary laboratories.

The sealed trip blanks were not opened in the field and were transported to the laboratory in the same cooler with the samples collected for volatile analysis. The trip blanks were preserved, packaged, and sealed in the manner described for the environmental samples. The trip blanks were analysed for Total Recoverable Hydrocarbons C6-C10 and BTEXN.

6.4.3.3 Equipment Blanks

An equipment rinsate blank was collected at the conclusion of sampling each day to evaluate field sampling and decontamination procedures. The equipment rinsate blanks (QC011 and QC18) were collected from the head of the hand auger that was used. The rinsate blank was obtained by passing deionised water through and over the decontaminated hand auger head.

The collected blanks were analysed for OC/OP Pesticides, Total Recoverable Hydrocarbons and 15 Metals.

The equipment rinsate blanks were preserved, packaged and sealed in the manner described for the environmental samples. The time the rinsate was collected was also recorded.

6.4.3.4 Assessment of Field Variability (Blind Replicate and Split samples)

Two quality control soil samples were collected for every twenty primary soil samples analysed. Three sets of replicate and split samples were collected:

- QC02 and QC03, collected at VP06/0-0.15
- QC04 and QC05, collected at VP025/0-0.15
- QC13 and QC14, collected at VP40/0-0.15

Quality control samples were preserved, packaged, and sealed in the same manner as the primary samples. A separate sample number was assigned to each QC sample, and it was submitted blind to the laboratory. Blind replicate samples were submitted to ALS whilst split samples were submitted to Eurofins MGT.

6.4.4 Sample Documentation

All samples collected were labelled in a clear and precise way for proper identification in the field and for tracking in the laboratory.

The samples had identifiable and unique numbers. The sample labels contained the following information:

- Company name
- Name of sampler
- Sample ID
- Date/Time sample was collected.

Chain-of-custody forms were used to document sample collection and transport to laboratories for analysis. All sample transports for analysis were accompanied by a chain-of-custody form.

Forms were completed and sent with the samples for each laboratory and each transport (i.e. each day). If multiple coolers were sent to a single laboratory on a single day, forms were completed and sent with the samples for each cooler.

The chain-of-custody forms identified the contents of each transport and maintained the custodial integrity of the samples. The coolers in which samples were stored were sealed with self-adhesive custody seals. All custody seals were signed. The chain of custody forms are attached to **Appendix 12.**

6.4.5 Packaging and Transport

All sample containers were placed in a plastic cooler. The following outlines the packaging procedures that were followed for samples:

- When ice was used, it was packed in zip-locked, double plastic bags. The drain plug of the cooler was sealed with fiberglass tape to prevent melting ice from leaking out of the cooler.
- The bottom of the cooler was lined with bubble wrap to prevent breakage during transport.
- All glass sample containers were enclosed in bubble wrap to prevent breakage.
- Where required, empty space in the cooler was filled with bubble wrap to prevent movement and breakage during transport.
- Ice used to cool samples was placed on top and around the samples to chill them to the correct temperature.
- Each cooler was securely taped shut with signed custody seals.

6.4.6 Field Notes

The following information was recorded during the collection of samples:

- Sample location and description
- Sampling area sketch showing sample location and measured distances (where required)
- Sampler's name(s)
- Date and time of sample collection
- Sample ID
- Type of soil/material encountered (Fill, Natural etc.)
- GPS Coordinates
- Photoionisation Detector ('PID') readings
- Field observations and details related to analysis or integrity of samples (e.g., weather conditions, noticeable odours, colours etc.)
- Soil descriptions as per AS1726-1993.
- Sample preservation details

In addition to the sampling information, the following specific information was also recorded in the field logbook for each day of sampling. These are attached to **Appendix 13**:

- Team members and their responsibilities
- Time of arrival/entry on site and time of site departure
- Other personnel on site
- Summary of any meetings or discussions
- Deviations from sampling plans
- Changes in personnel and responsibilities with reasons for the changes
- Calibration readings for any equipment used and equipment model and serial number.

7.0 SOIL COLLECTION AND ANALYSIS

The soil sampling program detailed in Section 7.0 was undertaken on site on 21 and 22 July 2016.

A hand auger and gloved hands were used by ESA staff to collect samples based on the scope of works. Gloves were changed between samples.

A photoionisation detector was calibrated prior to each sample collection event. The PID calibration sheets are attached to **Appendix 14**. All samples were analysed using the PID and the results are shown in Table 7.0.

Table 7.0 Sample Details

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP01/0-0.15	VP01	0-0.15	NEPM Suite*	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP01/0.15-0.3	VP01	0.15-0.3	Hold	0.0/Nil	Nil
VP02/0-0.15	VP02	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP02/0.15-0.3	VP02	0.15-0.3	Hold	0.0/Nil	Nil
VP03/0-0.15	VP03	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP03/0.15-0.3	VP03	0.15-0.3	Hold	0.0/Nil	Nil
VP04/0-0.15	VP04	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP04/0.15-0.3	VP04	0.15-0.3	Hold	0.0/Nil	Nil
VP05/0-0.15	VP05	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP05/0.15-0.3	VP05	0.15-0.3	Hold	0.0/Nil	Nil
VP06/0-0.15 QC02 QC03	VP06	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP06/0.15-0.3	VP06	0.15-0.3	Hold	0.0/Nil	Nil
VP07/0-0.15	VP07	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP07/0.15-0.3	VP07	0.15-0.3	Hold	0.0/Nil	Nil
VP08/0-0.15	VP08	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP08/0.15-0.3	VP08	0.15-0.3	Hold	0.0/Nil	Nil
VP09/0-0.15	VP09	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP09/0.15-0.3	VP09	0.15-0.3	Hold	0.0/Nil	Nil
VP10/0-0.15	VP10	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP10/0.15-0.3	VP10	0.15-0.3	Hold	0.0/Nil	Nil
VP11/0-0.15	VP11	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP11/0.15-0.3	VP11	0.15-0.3	Hold	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP12/0-0.15	VP12	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP12/0.15-0.3	VP12	0.15-0.3	Hold	0.0/Nil	Nil
VP13/0-0.15	VP13	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP13/0.15-0.3	VP13	0.15-0.3	Hold	0.0/Nil	Nil
VP14/0-0.15	VP14	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP14/0.15-0.3	VP14	0.15-0.3	Hold	0.0/Nil	Nil
VP15/0-0.15	VP15	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP15/0.15-0.3	VP15	0.15-0.3	Hold	0.0/Nil	Nil
VP16/0-0.15	VP16	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP16/0.15-0.3	VP16	0.15-0.3	Hold	0.0/Nil	Nil
VP17/0-0.15	VP17	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP17/0.15-0.3	VP17	0.15-0.3	Hold	0.0/Nil	Nil
VP18/0-0.15	VP18	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP18/0.15-0.3	VP18	0.15-0.3	Hold	0.0/Nil	Nil
VP19/0-0.15	VP19	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP19/0.15-0.3	VP19	0.15-0.3	Hold	0.0/Nil	Nil
VP20/0-0.15	VP20	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP20/0.15-0.3	VP20	0.15-0.3	Hold	0.0/Nil	Nil
VP21/0-0.15	VP21	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP21/0.15-0.3	VP21	0.15-0.3	Hold	0.0/Nil	Nil
VP22/0-0.15	VP22	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP22/0.15-0.3	VP22	0.15-0.3	Hold	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP23/0-0.15	VP23	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP23/0.15-0.3	VP23	0.15-0.3	Hold	0.0/Nil	Nil
VP24/0-0.15	VP24	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP24/0.15-0.3	VP24	0.15-0.3	Hold	0.0/Nil	Nil
VP25/0-0.15 QC04 QC05	VP25	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP25/0.15-0.3	VP25	0.15-0.3	Hold	0.0/Nil	Nil
VP26/0-0.15	VP26	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP26/0.15-0.3	VP26	0.15-0.3	Hold	0.0/Nil	Nil
VP27/0-0.15	VP27	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP27/0.15-0.3	VP27	0.15-0.3	Hold	0.0/Nil	Nil
VP28/0-0.15	VP28	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP28/0.15-0.3	VP28	0.15-0.3	Hold	0.0/Nil	Nil
VP29/0-0.15	VP29	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP29/0.15-0.3	VP29	0.15-0.3	Hold	0.0/Nil	Nil
VP30/0-0.15	VP30	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP30/0.15-0.3	VP30	0.15-0.3	Hold	0.0/Nil	Nil
VP31/0-0.15	VP31	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP31/0.15-0.3	VP31	0.15-0.3	Hold	0.0/Nil	Nil
VP32/0-0.15	VP32	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP32/0.15-0.3	VP32	0.15-0.3	Hold	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP33/0-0.15	VP33	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP33/0.15-0.3	VP33	0.15-0.3	Hold	0.0/Nil	Nil
VP34/0-0.15	VP34	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP34/0.15-0.3	VP34	0.15-0.3	Hold	0.0/Nil	Nil
VP35/0-0.15	VP35	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP35/0.15-0.3	VP35	0.15-0.3	Hold	0.0/Nil	Nil
VP36/0-0.15	VP36	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP36/0.15-0.3	VP36	0.15-0.3	Hold	0.0/Nil	Nil
VP37/0-0.15	VP37	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP37/0.15-0.3	VP37	0.15-0.3	Hold	0.0/Nil	Nil
VP38/0-0.15	VP38	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP38/0.15-0.3	VP38	0.15-0.3	Hold	0.0/Nil	Nil
VP39/0-0.15	VP39	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP39/0.15-0.3	VP39	0.15-0.3	Hold	0.0/Nil	Nil
VP40/0-0.15 QC13 QC14	VP40	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP40/0.15-0.3	VP40	0.15-0.3	Hold	0.0/Nil	Nil
VP41/0-0.15	VP41	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP41/0.15-0.3	VP41	0.15-0.3	Hold	0.0/Nil	Nil
VP42/0-0.15	VP42	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP42/0.15-0.3	VP42	0.15-0.3	Hold	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP43/0-0.15	VP43	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP43/0.15-0.3	VP43	0.15-0.3	Hold	0.0/Nil	Nil
VP44/0-0.15	VP44	0-0.15	TRH C6-C40/BTEXN/PAH/8 Metals	0.0/Nil	Nil
VP44/0.15-0.3	VP44	0.15-0.3	Hold	0.0/Nil	Nil
VP45/0-0.15	VP45	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP45/0.15-0.3	VP45	0.15-0.3	Hold	0.0/Nil	Nil
VP46/0-0.15	VP46	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP46/0.15-0.3	VP46	0.15-0.3	Hold	0.0/Nil	Nil
VP47/0-0.15	VP47	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP47/0.15-0.3	VP47	0.15-0.3	Hold	0.0/Nil	Nil
VP48/0-0.15	VP48	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP48/0.15-0.3	VP48	0.15-0.3	Hold	0.0/Nil	Nil
VP49/0-0.15	VP49	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP49/0.15-0.3	VP49	0.15-0.3	Hold	0.0/Nil	Nil
VP50/0-0.15	VP50	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP50/0.15-0.3	VP50	0.15-0.3	Hold	0.0/Nil	Nil
VP51/0-0.15	VP51	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP51/0.15-0.3	VP51	0.15-0.3	Hold	0.0/Nil	Nil
VP52/0-0.15	VP52	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP52/0.15-0.3	VP52	0.15-0.3	Hold	0.0/Nil	Nil
VP53/0-0.15	VP53	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP53/0.15-0.3	VP53	0.15-0.3	Hold	0.0/Nil	Nil

Sample ID	Sample Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
VP54/0-0.15	VP54	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP54/0.15-0.3	VP54	0.15-0.3	Hold	0.0/Nil	Nil
VP55/0-0.15	VP55	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP55/0.15-0.3	VP55	0.15-0.3	Hold	0.0/Nil	Nil
VP56/0-0.15	VP56	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP56/0.15-0.3	VP56	0.15-0.3	Hold	0.0/Nil	Nil
VP57/0-0.15	VP57	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP57/0.15-0.3	VP57	0.15-0.3	Hold	0.0/Nil	Nil
VP58/0-0.15	VP58	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP58/0.15-0.3	VP58	0.15-0.3	Hold	0.0/Nil	Nil
VP59/0-0.15	VP59	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP59/0.15-0.3	VP59	0.15-0.3	Hold	0.0/Nil	Nil
VP60/0-0.15	VP60	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP60/0.15-0.3	VP60	0.15-0.3	Hold	0.0/Nil	Nil
VP61/0-0.15	VP61	0-0.15	NEPM Suite*	0.0/Nil	Nil
VP61/0.15-0.3	VP61	0.15-0.3	Hold	0.0/Nil	Nil
VP62/0-0.15	VP62	0-0.15	OC/OP Pesticides & 15 Metals	0.0/Nil	Nil
VP62/0.15-0.3	VP62	0.15-0.3	Hold	0.0/Nil	Nil

* = 15 Metals including As, Ba, Be, B, Cd, Cr, Co, Cu, Hg, Mn, Ni, Pb, Se V, Zn, TRH (C6-C36 or 40) / BTEXN, PAH/Phenols (16 PAHs & 12 Phenols), OC/OP Pesticides Including Triazine, Pesticides (Atrazine) and Bifenthrin, PCB, Cyanide – WAD, Chromium – Hexavalent

7.1 Results of Analysis

The laboratories used for conducting the soil analysis were Australian Laboratory Services Pty Ltd ('ALS') and Eurofins MGT ('Eurofins'). Both laboratories are NATA certified for the analysis undertaken.

The comparison tables for the soil validation laboratory results are attached in **Appendix 15**. All chain of custody forms, certificates of analysis and laboratory QA/QC documents are in **Appendix 12.** The laboratory report numbers are EM1608710 and 509086.

The laboratory results were compared with:

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended) HIL A, and Urban Residential ESLs.

The results were as follows:

- One result for Lead (VP08/0-0.15 = 302 mg/kg) was in excess of the upper threshold for HIL A.
- All other results were below the upper thresholds for HIL A and ESLs for Urban Residential.
- Petroleum hydrocarbons (F1 and F2) were not detected in these samples, as such aliphatic/aromatic speciation was not required to determine the applicability of NEPM HSLs.

Section 3 of the NEPM 1999 (As Amended) Schedule B1 guidelines states that:

"At the very least, the maximum and the 95% UCL of the arithmetic mean contaminant concentration should be compared to the relevant Tier 1 screening criteria.

The results should also meet the following criteria:

- *The standard deviation of the results should be less than 50% of the relevant investigation or screening level, and*
- *No single value should exceed 250% of the relevant investigation or screening level.*

The maximum observed contaminant concentration generally provides a conservative assessment of exposure because if estimated risks from the maximum concentrations are not of concern, then the site should be suitable for use under the CSM considered. However, a maximum concentration may not be representative of the source as a whole and may result in an overestimation or underestimation of risk if the data is extremely limited.

The 95% UCL of the arithmetic mean provides a 95% confidence level that the true population mean will be less than, or equal to, this value. The 95% UCL is a useful mechanism to account for uncertainty in whether the data set is large enough for the mean to provide a reliable measure of central tendency."

The data set for Lead meets the above criteria and has a 95% UCL value of 27.3 mg/kg. This value does not exceed the upper threshold for HIL A. The 95% $UCL_{average}$ calculations are attached in **Appendix 15**.

Leachability testing was not undertaken as none of the soil samples had COPC concentrations above expected background levels.

All soils encountered were aesthetically acceptable for residential purposes and no Asbestos Containing Material ('ACM') was observed.

7.1.1 QC Results - Blind Replicate and Split Sample Analysis

Three blind replicate (QC02, QC04 & QC13) and three split (QC03, QC05 & QC14) samples were collected as part of the sampling program and are detailed in Table 3.0.

The RPDs were calculated for these samples. The complete RPD comparison table is attached in **Appendix 15**:

- For the blind replicate (QC02) there were no elevated RPDs.
- For the split sample (QC03) there were elevated RPDs for Arsenic (86%) and Mercury (120%).
- For the blind replicate (QC04) there were elevated RPDs for Manganese (100%).
- For the split sample (QC05) there were elevated RPDs for Manganese (100%).
- For the blind replicate (QC13) there were elevated RPDs for Zinc (59%).
- For the split sample (QC14) there were no elevated RPDs.

The following comments should be noted when interpreting the elevated RPD calculations:

- Where results were outside the acceptable range, these were all less than an order of magnitude from the original, and
- It is considered that the variations reported may be due to differences in inter-lab testing procedures and/or heterogeneity of samples.

RPD exceedances are not considered to adversely affect the data quality and hence, alter the findings of the investigation. Where the reported concentrations of the quality control sample are higher than the primary samples, the higher concentrations were adopted for comparison against the relevant screening criteria.

7.2 ESA Quality Control

7.2.1 Field Blanks

One field blank was collected for each day of sampling:

- QC01 – 21 July 2016 and QC12 - 22 July 2016 were analysed for OC/OP Pesticides, Total Recoverable Hydrocarbons and 15 Metals.

All results for QC01 were below the LOR. For QC12 low level detections were reported for the metals Beryllium, Copper, Manganese, Mercury, Nickel and Zinc. Similar detections were reported in the rinsate sample (QC18) taken on the same day using the same deionised water. The deionised water is thought to have contained low levels of the metals detected. These detections are not considered to adversely affect the data quality and hence, alter the findings of the investigation. The comparison tables are attached to **Appendix 15**.

7.2.2 Trip Blanks

Trip blanks were placed in every cooler box containing soil samples (QC06, QC07, QC08, QC09, QC10, QC15, QC16 & QC17). Each sample was analysed for TRH C6-C10 and BTEXN. All results were below the LOR and the comparison table is attached to **Appendix 15**.

7.2.3 Equipment Rinsate Blanks

An equipment rinsate blank was collected at the conclusion of sampling each day to evaluate field sampling and decontamination procedures. The equipment rinsate blank was collected from the head of the hand auger that was used. The rinsate blank was obtained by passing deionised water through and over the decontaminated hand auger head.

- QC11 – 21 July 2016 and QC18 - 22 July 2016 were analysed for OC/OP Pesticides, Total Recoverable Hydrocarbons and 15 Metals.

All results for QC11 were below the LOR. For QC18 low level detections were reported for the metals Beryllium, Copper, Manganese, Mercury and Nickel. Similar detections were reported in the field blank sample (QC12) taken on the same day using the same deionised water. The deionised water is thought to have contained low levels of the metals detected. These detections are not considered to adversely affect the data quality and hence, alter the findings of the investigation. The comparison tables are attached to **Appendix 15**.

7.2.4 Laboratory QA/QC

As part of their NATA accreditation, ALS and Eurofins perform internal duplicate analysis of samples for comparison of results to demonstrate precision. Laboratory standards including matrix spike samples, laboratory control samples and surrogates are also conducted as a basis to demonstrate accuracy. In addition, internal laboratory blank samples are run to assess the potential for laboratory equipment errors. The laboratory QA/QC results are attached in **Appendix 12.**

7.2.4.1 ALS Environmental Laboratory (EM1608710)

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

7.2.4.3 Eurofins MGT (509086)

- For all matrices, no Method Blank value outliers occur.
- For soil, one Duplicate outlier occurred.
- For all matrices, no Laboratory Control outliers occur.
- For all matrices, no Matrix Spike outliers occur.
- For all regular sample matrices, no surrogate recovery outliers occur.

7.2.4.3 Sample Holding Times and Sample Receipt Temperature

Sample holding times were within acceptable ranges from collection to extraction. The documented temperature of samples upon receipt at the respective laboratory was within an acceptable range.

7.2.4.4 Conclusion

A review of the laboratory reports indicates that ALS and Eurofins have met their internal acceptance criteria for the quality control samples.

8.0 CONCLUSIONS

- The site is approximately 392,600m^2 of farming zoned land located at 2-120 Mollers Lane, Leopold.
- The client plans to develop the site as medium residential land for housing under the Geelong Planning Scheme.
- The contaminants of potential concern identified during the site inspections included those associated with the possible historical use of fertilisers/herbicides and storage/use of machinery.
- All results were below the upper thresholds of NEPM 1999 (As Amended) HIL A and ESLs for Urban Residential use.

- Based on the information collected as part of this investigation, the following is concluded:
  - The site is not considered to be potentially contaminated; and
  - As per Ministerial Direction No. 1, an Environmental Audit is not required for the site; and
  - The site is suitable for a medium residential land use for housing under the Geelong Planning Scheme.

9.0 REFERENCES

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)
- State Environment Protection Policy (Groundwater's of Victoria) 1997
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002
- Potentially Contaminated Land – General Practice Note – June 2005 – Department of Sustainability and Environment Ministerial Direction No. 1 – Potentially Contaminated Land (Direction No. 1)
- Australian Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005)
- Australian Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999)
- Victorian Water Resources Database (http://nremapsc.nre.vic.gov.au/MapShare.v2/imf.jsp?site=water)
- GeoVic (http://er-info.dpi.vic.gov.au/) – Department of State Development, Business and Innovation.
- Visualising Victoria's Groundwater (http://maps.cerdi.com.au/)

DISCLAIMER

This disclaimer, together with any limitations specified in the report, applies to use of this report.

This report was prepared in accordance with a contracted scope of services. There were a series of cost, time and other constraints which have affected the accuracy and completeness of investigations undertaken.

This report has been prepared solely for use by, and is confidential to; the client who contracted the scope of services and Environmental Site Assessments accepts no responsibility for its use by other persons.

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This report must be read in conjunction with the Statement of Qualifications and Limitations contained within it.

STATEMENT OF QUALIFICATIONS AND LIMITATIONS

It is not possible to identify all contamination or potential contaminants in or under the surface of the site. This is an intrinsic risk when investigating potentially and contaminated sites. As such, Environmental Site Assessments has prepared the following information which details the limitations of this environmental report.

In preparing this report, Environmental Site Assessments has relied on client/ third party information which was not verified by Environmental Site Assessments and Environmental Site Assessments does not accept responsibility for omissions or inaccuracies in the client/ third party information.

This report is based solely on the specific instructions received from its client and/or the scope of work agreed between Environmental Site Assessments and its client. Those instructions and/or scope of work may not be fully described in this report.

This report is based on the site conditions identified at the time of inspection. It is not possible to identify all contamination or potential contaminants in or under the surface of the site.

Investigations undertaken in respect of this report may have been constrained by the particular site conditions, such as the location of buildings, services and vegetation. Further, changes that may have occurred after inspection.

As a result of these matters, not all relevant site history, contaminants or potential for contamination may have been identified in this report.

No warranties express or implied, as to the accuracy or completeness of the matters contained within it are made.

Although normal standards of professional practice have been applied, the absence of any identified potential for air, soil or groundwater impacts on the subject property should not be interpreted as a conclusion that impacts do not exist on the site.

Subsurface conditions can vary across a particular site, which cannot be wholly defined by investigation.

As a result, it is unlikely that the results and estimations presented in this report will reflect the extremes of conditions within the site. Subsurface conditions including impact concentrations can change in a limited period of time. Any information provided may be based on "spot" tests. Conditions may vary between or beyond those locations from the interpreted conditions based on the actual data.

The analyses, evaluations, opinions and conclusions presented in this report are based on the information provided, and they could change if the information is in fact found to be unrepresentative of conditions between sampling and analysis locations.

The assessment and remediation of contamination is a developing science. Clean Up technology is constantly changing as scientific information on data collection, risk assessment, toxicology and remediation technologies are published. Further, opinions can vary as to the criterion for whether particular conditions constitute contamination, and if so how that contamination should be addressed or remediated. Different persons might reasonably or otherwise form opinions different to those of Environmental Site Assessments.

Use of the site for any purpose may require planning and other approvals and, in some cases, EPA and accredited site auditor approvals. Environmental Site Assessments offers no opinion as to the likelihood of obtaining any such approvals, or the conditions and obligations which such approvals may impose, which may include the requirement for significant environment works.

The ongoing use of the site or use of the site for a different purpose may require the owner/ user to manage and/ or remediate site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works or demolition works unless used in conjunction with a specification detailing the extent of the works.

To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

Environmental Site Assessments makes no determination or recommendation regarding a decision whether to acquire or provide financing with respect to the site.

Appendix 1: Basic and Planning Property Reports

Property Report from **www.land.vic.gov.au** on 25 July 2016 09:30 AM

Address: 2-20 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Lot 1 TP167626
Standard Parcel Identifier (SPI): 1\TP167626
Local Government (Council): GREATER GEELONG **Council Property Number:** 256091
Directory Reference: Melway 468 J4

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.

Further information about the building control system and building in bushfire prone areas can be found in the Building Commission section of the Victorian Building Authority website www.vba.vic.gov.au

State Electorates

Legislative Council: WESTERN VICTORIA
Legislative Assembly: BELLARINE

Utilities

Regional Urban Water Business: Barwon Water
Rural Water Business: Southern Rural Water
Melbourne Water: outside drainage boundary
Power Distributor: POWERCOR (Information about choosing an electricity retailer)

Planning Zone Summary

Planning Zone: FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE
Planning Overlay: None

Planning scheme data last updated on 21 July 2016.

A **planning scheme** sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State, local, particular and general provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting Planning Schemes Online

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the Planning & Environment Act 1987. It does not include information about exhibited planning scheme amendments, or zonings that may abut the land. To obtain a Planning Certificate go to Titles and Property Certificates

The Planning Property Report includes separate maps of zones and overlays

For details of surrounding properties, use this service to get the Reports for properties of interest

To view planning zones, overlay and heritage information in an interactive format visit Planning Maps Online

For other information about planning in Victoria visit www.delwp.vic.gov.au/planning

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Area Map

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Department of Environment, Land, Water and Planning

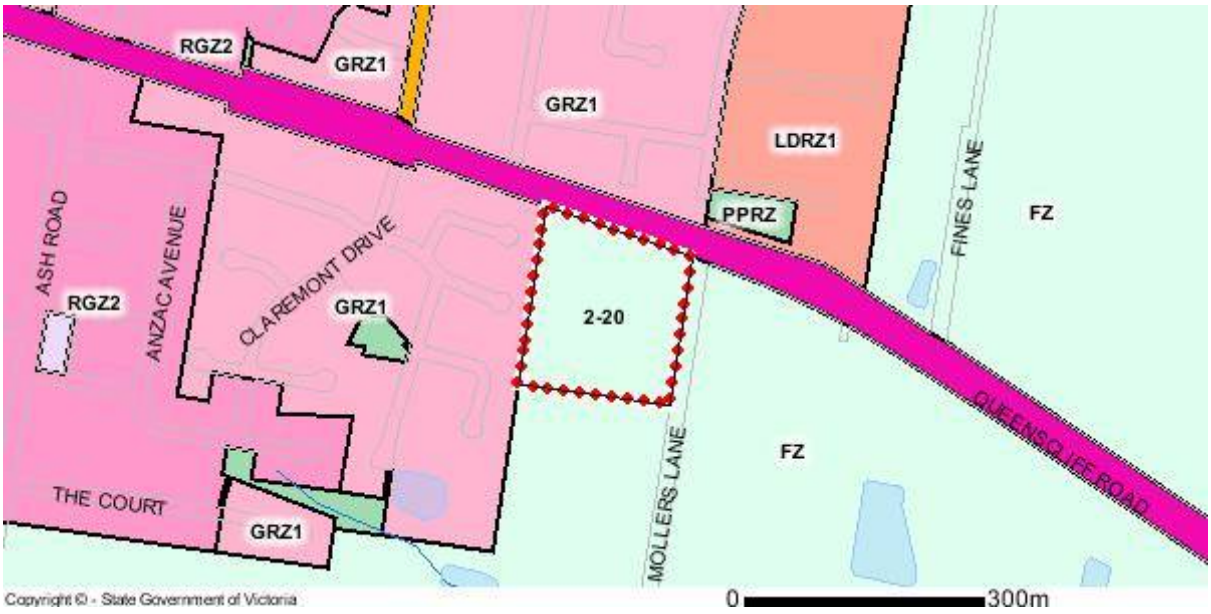
Planning Property Report

from **www.dtpli.vic.gov.au/planning** on 25 July 2016 09:30 AM

Address: 2-20 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Lot 1 TP167626
Local Government (Council): GREATER GEELONG **Council Property Number:** 256091
Directory Reference: Melway 468 J4

Planning Zone

FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE



Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

Zones Legend

- ACZ - Activity Centre
- B1Z - Commercial 1
- B2Z - Commercial 1
- B3Z - Commercial 2
- B4Z - Commercial 2
- B5Z - Commercial 1
- C1Z - Commercial 1
- C2Z - Commercial 2
- CA - Commonwealth Land
- CCZ - Capital City
- CDZ - Comprehensive Development
- DZ - Dockland
- ERZ - Environmental Rural
- FZ - Farming
- GRZ - General Residential
- GWAZ - Green Wedge A
- GWZ - Green Wedge
- IN1Z - Industrial 1
- IN2Z - Industrial 2
- IN3Z - Industrial 3
- LDRZ - Low Density Residential
- MUZ - Mixed Use
- NRZ - Neighbourhood Residential
- PCRZ - Public Conservation & Resource
- PDZ - Priority Development
- PPRZ - Public Park & Recreation
- PUZ1 - Public Use - Service & Utility
- PUZ2 - Public Use - Education
- PUZ3 - Public Use - Health Community
- PUZ4 - Public Use - Transport
- PUZ5 - Public Use - Cemetery/Crematorium
- PUZ6 - Public Use - Local Government
- PUZ7 - Public Use - Other Public Use
- PZ - Port
- R1Z - General Residential
- R2Z - General Residential
- R3Z - General Residential
- RAZ - Rural Activity
- RCZ - Rural Conservation
- RDZ1 - Road - Category 1
- RDZ2 - Road - Category 2
- RGZ - Residential Growth
- RLZ - Rural Living
- RUZ - Rural
- SUZ - Special Use
- TZ - Township
- UFZ - Urban Floodway
- UGZ - Urban Growth
- Urban Growth Boundary

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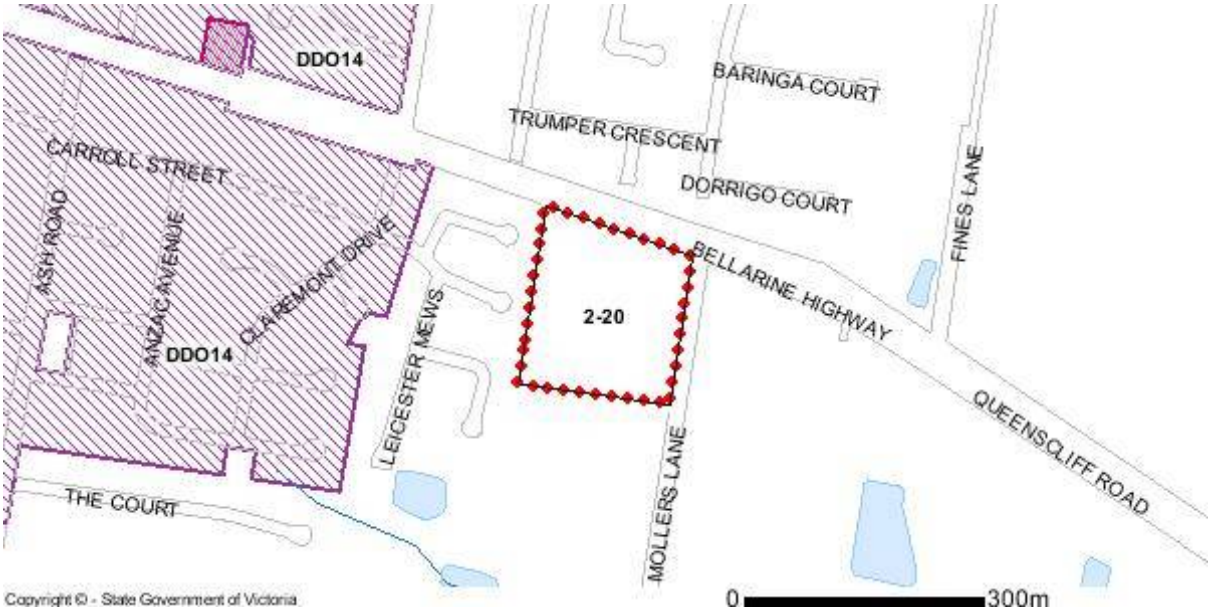
Planning Overlay

None affecting this land - there are overlays in the vicinity
DESIGN AND DEVELOPMENT OVERLAY (DDO)
HERITAGE OVERLAY (HO)



Overlays Legend

- AEO - Airport Environs
- BMO - Bushfire Management (also WMO)
- CLPO - City Link Project
- DCPO - Development Contributions Plan
- DDO - Design & Development
- DDOPT - Design & Development Part
- DPO - Development Plan
- EAO - Environmental Audit
- EMO - Erosion Management
- ESO - Environmental Significance
- FO - Floodway
- HO - Heritage
- IPO - Incorporated Plan
- LSIO - Land Subject to Inundation
- MAEO1 - Melbourne Airport Environs 1
- MAEO2 - Melbourne Airport Environs 2
- NCO - Neighbourhood Character
- PO - Parking
- PAO - Public Acquisition
- RO - Restructure
- RCO - Road Closure
- SBO - Special Building
- SLO - Significant Landscape
- SMO - Salinity Management
- SRO - State Resource
- VPO - Vegetation Protection

Note: due to overlaps some colours on the maps may not match those in the legend.

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Further Planning Information

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Property Report from **www.land.vic.gov.au** on 25 July 2016 09:28 AM

Address: 22-30 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Lot 2 LP74593
Standard Parcel Identifier (SPI): 2\LP74593
Local Government (Council): GREATER GEELONG **Council Property Number:** 256092
Directory Reference: Melway 468 H4

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.

Further information about the building control system and building in bushfire prone areas can be found in the Building Commission section of the Victorian Building Authority website www.vba.vic.gov.au

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Melbourne Water: outside drainage boundary
Power Distributor: POWERCOR (Information about choosing an electricity retailer)

Planning Zone Summary

Planning Zone: FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE
Planning Overlay: None

Planning scheme data last updated on 21 July 2016.

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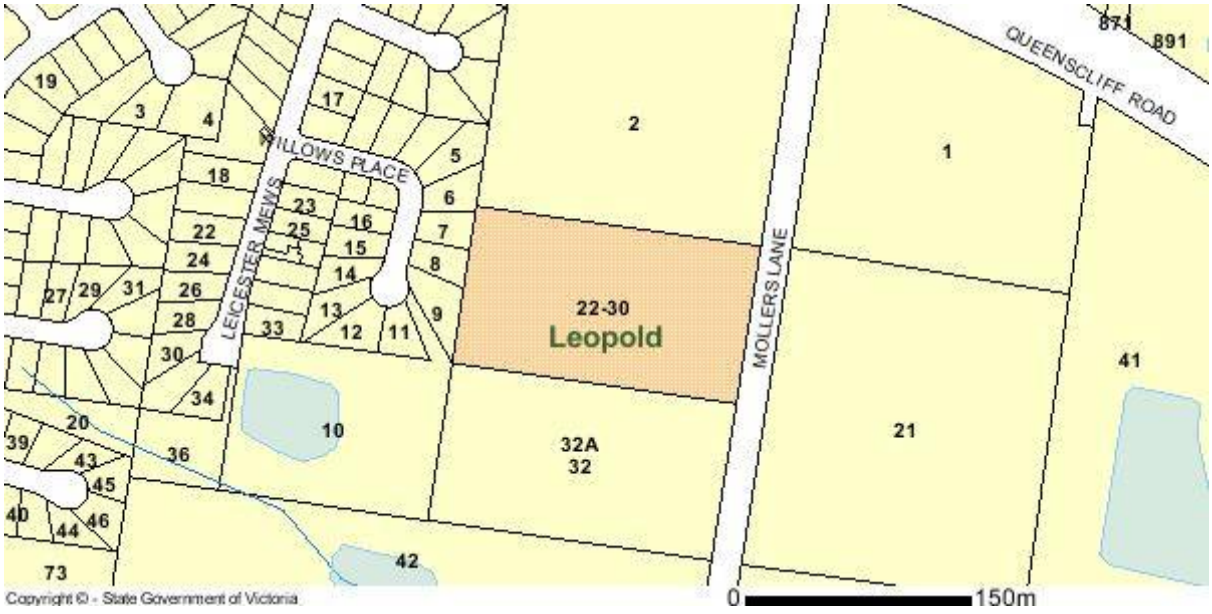
Area Map



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Department of Environment, Land, Water and Planning

Planning Property Report

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Local Government (Council): GREATER GEELONG **Council Property Number:** 256092
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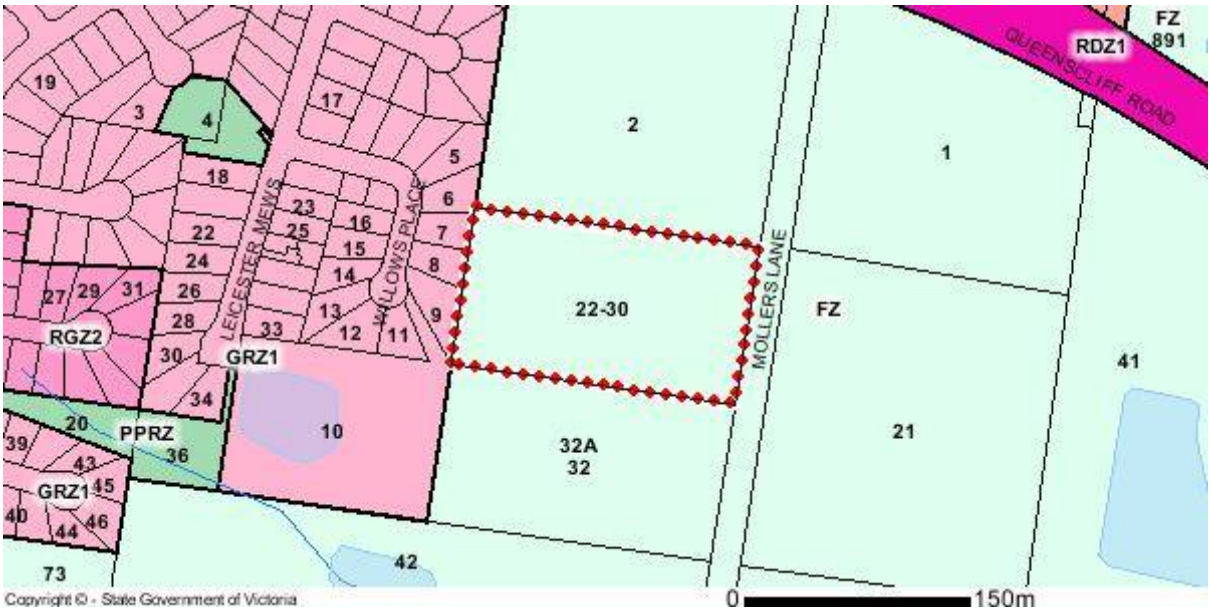
Planning Zone

FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE



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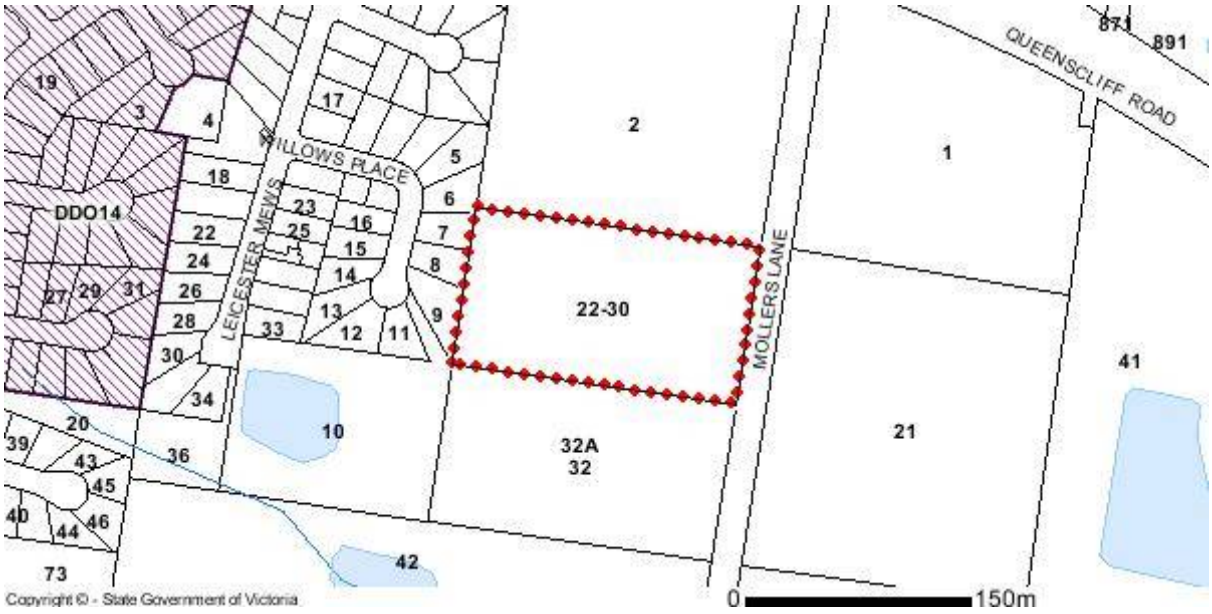
Planning Overlay

None affecting this land - there are overlays in the vicinity
DESIGN AND DEVELOPMENT OVERLAY (DDO)



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- FO - Floodway
- HO - Heritage
- IPO - Incorporated Plan
- LSIO - Land Subject to Inundation
- MAEO1 - Melbourne Airport Environs 1
- MAEO2 - Melbourne Airport Environs 2
- NCO - Neighbourhood Character
- PO - Parking
- PAO - Public Acquisition
- RO - Restructure
- RCO - Road Closure
- SBO - Special Building
- SLO - Significant Landscape
- SMO - Salinity Management
- SRO - State Resource
- VPO - Vegetation Protection

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Further Planning Information

Planning scheme data last updated on 21 July 2016.

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Property Report from **www.land.vic.gov.au** on 25 July 2016 09:25 AM

Address: 32-40 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Lot 1 LP113935
Standard Parcel Identifier (SPI): 1\LP113935
Local Government (Council): GREATER GEELONG **Council Property Number:** 256093
Directory Reference: Melway 468 H5

Note: There are 2 properties identified for this site.
These can include units (or car spaces), shops, or part or whole floors of a building.
Dimensions for these individual properties are generally not available.

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.

Further information about the building control system and building in bushfire prone areas can be found in the Building Commission section of the Victorian Building Authority website www.vba.vic.gov.au

State Electorates

Legislative Council: WESTERN VICTORIA
Legislative Assembly: BELLARINE

Utilities

Regional Urban Water Business: Barwon Water
Rural Water Business: Southern Rural Water
Melbourne Water: outside drainage boundary
Power Distributor: POWERCOR (Information about choosing an electricity retailer)

Planning Zone Summary

Planning Zone: FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE
Planning Overlay: None

Planning scheme data last updated on 21 July 2016.

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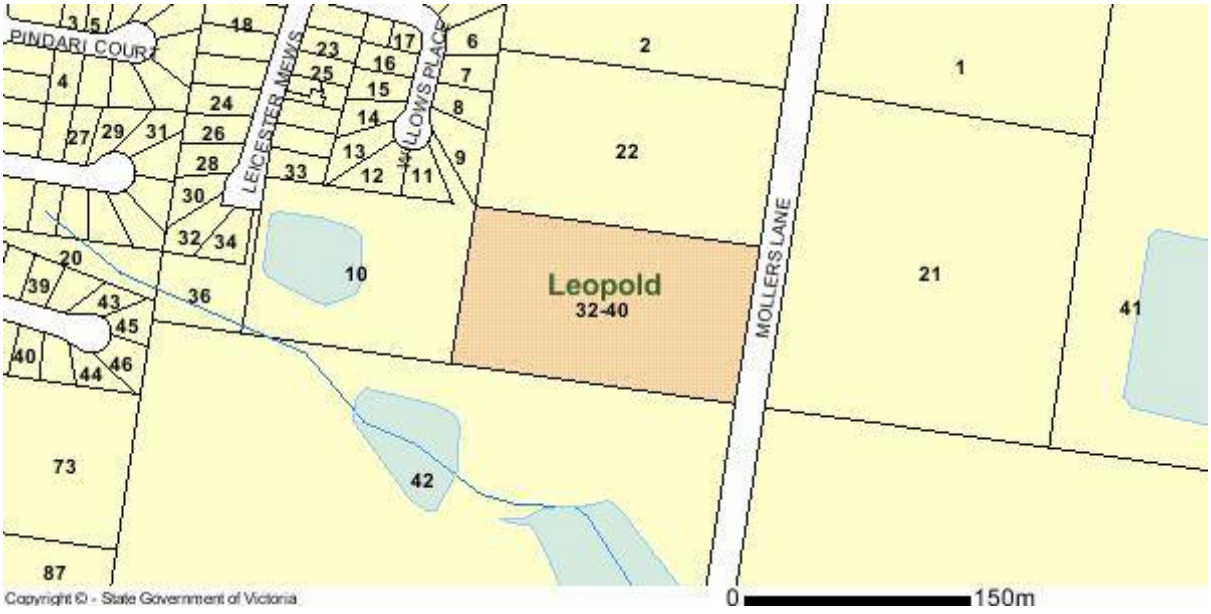
Area Map



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Department of Environment, Land, Water and Planning

Planning Property Report

from **www.dtpli.vic.gov.au/planning** on 25 July 2016 09:26 AM

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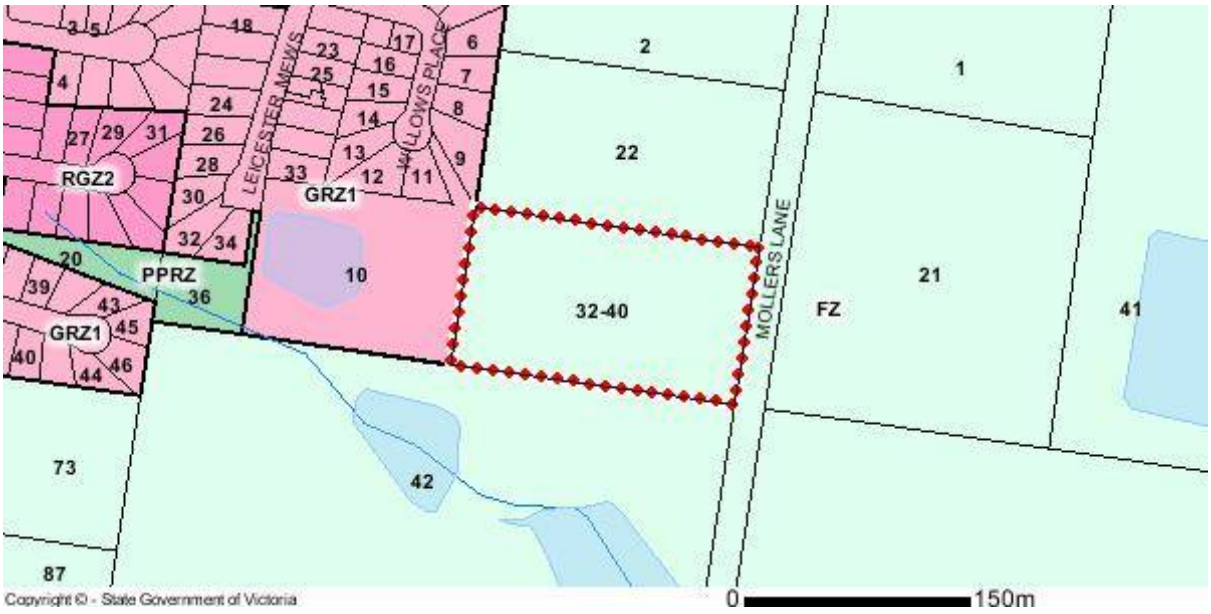
Local Government (Council): GREATER GEELONG **Council Property Number:** 256093
Directory Reference: Melway 468 H5

Planning Zone

FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE



Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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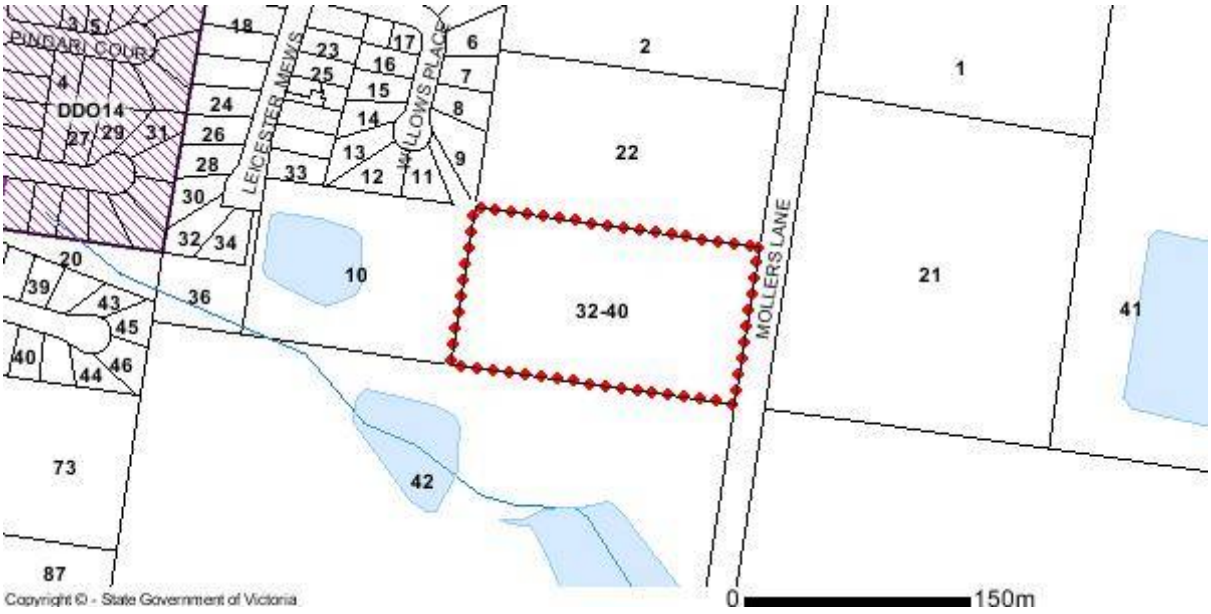
Planning Overlay

None affecting this land - there are overlays in the vicinity
DESIGN AND DEVELOPMENT OVERLAY (DDO)



Overlays Legend

- AEO - Airport Environs
- BMO - Bushfire Management (also WMO)
- CLPO - City Link Project
- DCPO - Development Contributions Plan
- DDO - Design & Development
- DDOPT - Design & Development Part
- DPO - Development Plan
- EAO - Environmental Audit
- EMO - Erosion Management
- ESO - Environmental Significance
- FO - Floodway
- HO - Heritage
- IPO - Incorporated Plan
- LSIO - Land Subject to Inundation
- MAEO1 - Melbourne Airport Environs 1
- MAEO2 - Melbourne Airport Environs 2
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Property Report from **www.land.vic.gov.au** on 25 July 2016 09:24 AM

Address: 42-90 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Plan PC353398
Standard Parcel Identifier (SPI): PC353398
Local Government (Council): GREATER GEELONG **Council Property Number:** 256094
Directory Reference: Melway 468 H5

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.

Further information about the building control system and building in bushfire prone areas can be found in the Building Commission section of the Victorian Building Authority website www.vba.vic.gov.au

State Electorates

Legislative Council: WESTERN VICTORIA
Legislative Assembly: BELLARINE

Utilities

Regional Urban Water Business: Barwon Water
Rural Water Business: Southern Rural Water
Melbourne Water: outside drainage boundary
Power Distributor: POWERCOR (Information about choosing an electricity retailer)

Planning Zone Summary

Planning Zone: FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE
Planning Overlay: SIGNIFICANT LANDSCAPE OVERLAY (SLO)
SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 10 (SLO10)

Planning scheme data last updated on 21 July 2016.

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Area Map

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Department of Environment, Land, Water and Planning

Planning Property Report

from **www.dtpli.vic.gov.au/planning** on 25 July 2016 09:25 AM

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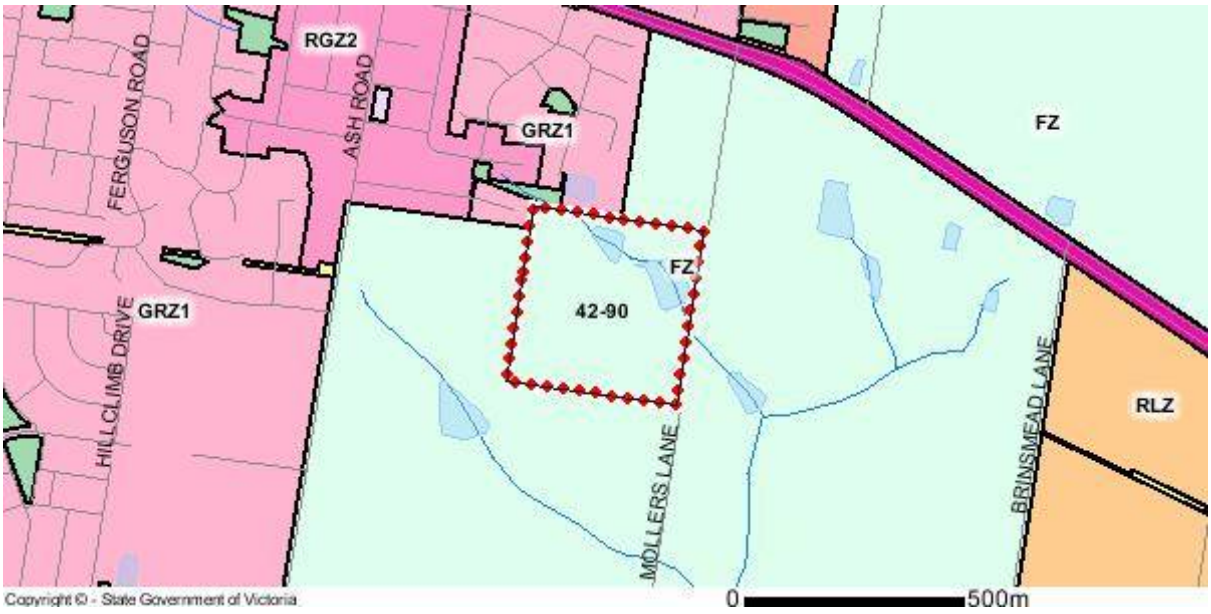
Local Government (Council): GREATER GEELONG **Council Property Number:** 256094
Directory Reference: Melway 468 H5

Planning Zone

FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE



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Planning Overlay

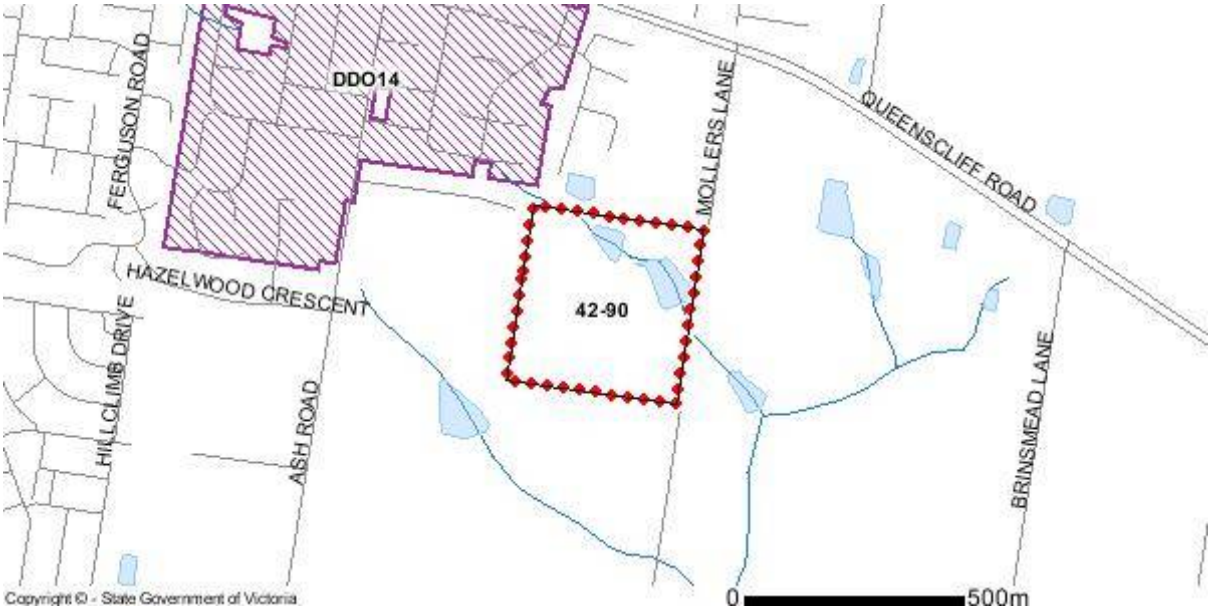
SIGNIFICANT LANDSCAPE OVERLAY (SLO)

SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 10 (SLO10)

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

DESIGN AND DEVELOPMENT OVERLAY (DDO)



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Property Report from **www.land.vic.gov.au** on 25 July 2016 09:21 AM

Address: 92-120 MOLLERS LANE LEOPOLD 3224
Lot and Plan Number: Lot 1 TP11676
Standard Parcel Identifier (SPI): 1\TP11676
Local Government (Council): GREATER GEELONG **Council Property Number:** 256095
Directory Reference: Melway 468 H6

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.

Further information about the building control system and building in bushfire prone areas can be found in the Building Commission section of the Victorian Building Authority website www.vba.vic.gov.au

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Legislative Assembly: BELLARINE

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Regional Urban Water Business: Barwon Water
Rural Water Business: Southern Rural Water
Melbourne Water: outside drainage boundary
Power Distributor: POWERCOR (Information about choosing an electricity retailer)

Planning Zone Summary

Planning Zone: FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE
Planning Overlay: SIGNIFICANT LANDSCAPE OVERLAY (SLO)
SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 10 (SLO10)

Planning scheme data last updated on 21 July 2016.

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Area Map

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Department of Environment, Land, Water and Planning

Planning Property Report

from **www.dtpli.vic.gov.au/planning** on 25 July 2016 09:23 AM

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Local Government (Council): GREATER GEELONG **Council Property Number:** 256095
Directory Reference: Melway 468 H6

Planning Zone

FARMING ZONE (FZ)
SCHEDULE TO THE FARMING ZONE

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Zones Legend

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- B1Z - Commercial 1
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- B5Z - Commercial 1
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VICTORIA State Government | Environment, Land, Water and Planning

Planning Overlay

SIGNIFICANT LANDSCAPE OVERLAY (SLO)

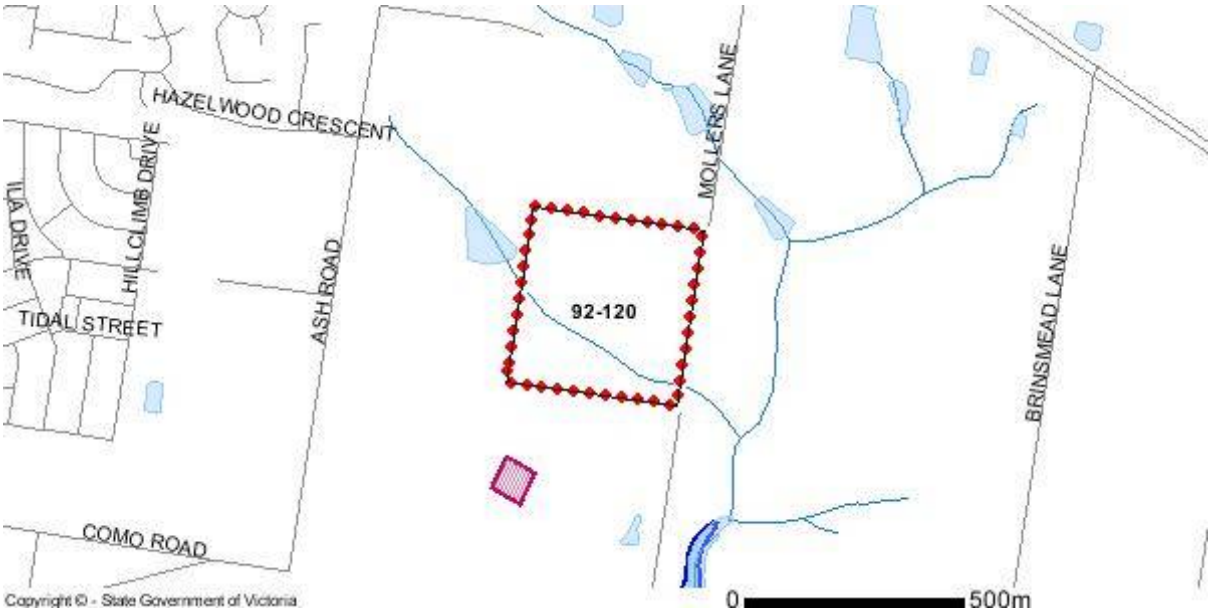
SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 10 (SLO10)

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

HERITAGE OVERLAY (HO)

FLOODWAY OVERLAY (FO)



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42.03 SIGNIFICANT LANDSCAPE OVERLAY

02/04/2015
VC124

Shown on the planning scheme map as **SLO** with a number.

Purpose

To implement the State Planning Policy Framework and the Local Planning Policy Framework, including the Municipal Strategic Statement and local planning policies.

To identify significant landscapes.

To conserve and enhance the character of significant landscapes.

42.03-1 Landscape character and objectives

19/01/2006
VC37

A schedule to this overlay must contain:

- A statement of the nature and key elements of the landscape.
- The landscape character objective to be achieved.

42.03-2 Permit requirement

15/09/2008
VC49

A permit is required to:

- Construct a building or construct or carry out works. This does not apply:
  - If a schedule to this overlay specifically states that a permit is not required.
  - To the conduct of agricultural activities including ploughing and fencing (but not the construction of dams) unless a specific requirement for that activity is specified in a schedule to this overlay.
- Construct a fence if specified in the schedule to this overlay.
- Remove, destroy or lop any vegetation specified in a schedule to this overlay. This does not apply:
  - If the table to Clause 42.03-3 specifically states that a permit is not required.
  - To the removal, destruction or lopping of native vegetation in accordance with a native vegetation precinct plan specified in the schedule to Clause 52.16.

42.03-3 Table of exemptions

02/04/2015
VC124

No permit is required to remove, destroy or lop vegetation to the minimum extent necessary if any of the following apply:	
Bracken	▪ The vegetation is bracken (Pteridium esculentum) which has naturally established or regenerated on land lawfully cleared of naturally established vegetation. This exemption does not apply to land on which vegetation has been cleared or otherwise destroyed or damaged as a result of flood, fire or other natural disaster.
Crown land	▪ The vegetation is to be removed, destroyed or lopped on Crown land and by a person acting under and in accordance with an authorisation order made under sections 82 or 84 of the *Traditional Owner Settlement Act 2010*.

No permit is required to remove, destroy or lop vegetation to the minimum extent necessary if any of the following apply:	
Emergency works	▪ The vegetation presents an immediate risk of personal injury or damage to property and only that part of vegetation which presents the immediate risk is removed, destroyed or lopped. ▪ The vegetation is to be removed, destroyed or lopped by a public authority or municipal council to create an emergency access or to enable emergency works.
Fire protection	▪ The vegetation is to be removed, destroyed or lopped for the making of a fuelbreak by or on behalf of a public authority in accordance with a strategic fuelbreak plan approved by the Secretary to the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the *Conservation, Forest and Lands Act 1987*). The maximum width of a fuelbreak must not exceed 40 metres. ▪ The vegetation is to be removed, destroyed or lopped for fire fighting measures, fuel reduction burning, or the making of a fuel break up to 6 metres wide. ▪ The vegetation is ground fuel within 30 metres of a building. ▪ The vegetation is to be removed, destroyed or lopped in accordance with a fire prevention notice under: · Section 65 of the *Forests Act 1958*. · Section 41 of the *Country Fire Authority Act 1958*. · Section 8 of the *Local Government Act 1989*. ▪ The vegetation is to be removed, destroyed or lopped to keep the whole or any part of any vegetation clear of an electric line in accordance with a code of practice prepared under Part 8 of the *Electricity Safety Act 1998*. ▪ The vegetation is to be removed, destroyed or lopped in accordance with any code of practice prepared in accordance with Part 8 of the *Electricity Safety Act 1998* in order to minimise the risk of bushfire ignition in the proximity of electricity lines. ▪ The vegetation is to be removed, destroyed or lopped to reduce fuel loads on roadsides to minimise the risk to life and property from bushfire of an existing public road managed by the relevant responsible road authority (as defined by the *Road Management Act 2004*) in accordance with the written agreement of the Secretary to the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the *Conservation, Forest and Lands Act 1987*).
Geothermal energy exploration and extraction	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of geothermal energy exploration or extraction in accordance with the *Geothermal Energy Resources Act 2005*.
Greenhouse gas sequestration exploration	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of geothermal energy exploration or extraction in accordance with the *Greenhouse Gas Geological Sequestration Act 2008*.
Greenhouse gas sequestration	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of geothermal energy exploration or extraction in accordance with the *Greenhouse Gas Geological Sequestration Act 2008*.
Land management notices	▪ The vegetation is to be removed, destroyed or lopped to comply with land management notice issued under the *Catchment and Land Protection Act 1994*.

No permit is required to remove, destroy or lop vegetation to the minimum extent necessary if any of the following apply:	
Land use conditions	▪ The vegetation is to be removed, destroyed or lopped to comply with a land use condition served under the *Catchment and Land Protection Act 1994*.
Mineral Exploration	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of Mineral exploration.
Mineral extraction	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of Mineral extraction in accordance with a work plan approved under the *Mineral Resources (Sustainable Development) Act 1990* and authorised by a work authority granted under that Act.
Noxious weeds	▪ The vegetation is a noxious weed the subject of a declaration under section 58 or section 58A of the *Catchment and Land Protection Act 1994*. This exemption does not apply to Australian Dodder (Cuscuta australis).
Pest animal burrows	▪ The vegetation is to be removed, destroyed or lopped to enable the removal of pest animal burrows. ▪ In the case of native vegetation the written agreement of an officer of the Department responsible for administering the *Flora and Fauna Guarantee Act 1988* is required before the vegetation can be removed, destroyed or lopped.
Planted vegetation	▪ The vegetation has been planted or grown as a result of direct seeding for Crop raising or Extensive animal husbandry.
Railways	▪ The vegetation is to be removed, destroyed or lopped to maintain the safe and efficient function of an existing railway or railway access road, in accordance with the written agreement of the Secretary to the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the *Conservation, Forest and Lands Act 1987*).
Regrowth	▪ The vegetation is regrowth which has naturally established or regenerated on land lawfully cleared of naturally established vegetation and is within the boundary of a timber production plantation, as indicated on a Plantation Development Notice or other documented record, and has established after the plantation. ▪ This exemption does not apply to land on which vegetation has been cleared or otherwise destroyed or damaged as a result of flood, fire or other natural disaster.
Road safety	▪ The vegetation is to be removed, destroyed or lopped to maintain the safe and efficient function of an existing public road managed by the relevant responsible road authority (as defined by the *Road Management Act 2004*) in accordance with the written agreement of the Secretary of the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the *Conservation, Forest and Lands Act 1987*).

No permit is required to remove, destroy or lop vegetation to the minimum extent necessary if any of the following apply:	
Stone exploration	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of the Stone exploration. The maximum extent of vegetation removed, destroyed or lopped under this exemption on contiguous land in the same ownership in a five year period must not exceed any of the following: · 1 hectare of vegetation which does not include a tree. · 15 trees if each tree has a trunk diameter of less than 40 centimetres at a height of 1.3 metres above ground level. · 5 trees if each tree has a trunk diameter of 40 centimetres or more at a height of 1.3 metres above ground level. This exemption does not apply to vegetation to be removed, destroyed or lopped to enable costeaning and bulk sampling activities.
Stone extraction	▪ The vegetation is to be removed, destroyed or lopped to enable the carrying out of Stone extraction in accordance with a work plan approved under the *Mineral Resources (Sustainable Development) Act 1990* and authorised by a work authority granted under that Act.
Surveying	▪ The vegetation is to be removed, destroyed or lopped for establishing sight-lines for the measurement of land by surveyors in the exercise of their profession, and if using hand-held tools.

42.03-4 Decision guidelines

18/11/2011
VC83

Before deciding on an application, in addition to the decision guidelines in Clause 65, the responsible authority must consider, as appropriate:

- The State Planning Policy Framework and the Local Planning Policy Framework, including the Municipal Strategic Statement and local planning policies.
- The statement of the nature and key elements of the landscape and the landscape character objective contained in a schedule to this overlay.
- The conservation and enhancement of the landscape values of the area.
- The need to remove, destroy or lop vegetation to create defendable space to reduce the risk of bushfire to life and property.
- The impact of the proposed buildings and works on the landscape due to height, bulk, colour, general appearance or the need to remove vegetation.
- The extent to which the buildings and works are designed to enhance or promote the landscape character objectives of the area.
- The impact of buildings and works on significant views.
- Any other matters specified in a schedule to this overlay.

Notes: *Refer to the State Planning Policy Framework and the Local Planning Policy Framework, including the Municipal Strategic Statement, for strategies and policies which may affect the use and development of the land.*

Check the requirements of the zone which applies to the land.

Other requirements may also apply. These can be found at Particular Provisions.

24/02/2011
C177

SCHEDULE 10 TO THE SIGNIFICANT LANDSCAPE OVERLAY

Shown on the planning scheme map as **SLO10**

LAKE CONNEWARRE ESCARPMENT

1.0 Statement of nature and key elements of landscape

24/02/2011
C177

This landscape contains the prominent escarpment that wraps around the northern and eastern edges of Lake Connewarre and the lower reaches of the Barwon River Estuary. This escarpment is part of the largest area of remnant indigenous vegetation on the Bellarine Peninsula. It provides an attractive entrance to the township of Ocean Grove and is of regional visual significance.

The landscape is valued by the local community for its scenic qualities and views over the wetlands, and as a natural landscape that provides a habitat for flora and fauna. The adjacent wetlands system has been recognised internationally as a Ramsar site and is listed on the Register of the National Estate as an important wetlands system with significant tertiary fossils. The area is also recognised for its role in contributing to the ecological and aesthetic diversity of the region.

2.0 Landscape character objective to be achieved

24/02/2011
C177

- To protect locally significant views and vistas that contribute to the landscape, including extensive and scenic outviews across waterbodies from main roads and settlements.
- To ensure that the prominent slopes above Lake Connewarre retain a largely unbuilt and partially vegetated character, free from intrusive built development.
- To improve the appearance of rural living development within the landscape.
- To minimise the visual impact of infrastructure and signage throughout the landscape.
- To maintain and improve indigenous vegetation throughout the landscape, particularly at roadsides, in riparian strips and on lake escarpments.
- To protect cultural vegetation elements that positively contribute to the character of the landscape, including exotic wind breaks and feature planting around homesteads.
- To recognise and protect the continuation of the land as a working farmed landscape.

3.0 Permit requirement

24/02/2011
C177

A permit is not required for:

- An alteration or extension to an existing dwelling or building used for agriculture where all of the following are met:
  - The alteration or extension is no more than 7.5 metres in height above natural ground level; and
  - The building footprint of the alteration or extension is no more than 100 square metres; and
  - The alteration or extension is in muted, non-reflective tones.
- The construction of a new building used for agriculture where all of the following are met:

- The construction is no more than 5 metres in height above natural ground level; and
- The building footprint of the construction is no more than 100 square metres; and
- The construction is in muted, non-reflective tones.

- Buildings and works associated with informal outdoor recreation.
- Works undertaken by a public authority relating to watercourse management or environmental improvements.

A permit is required to remove, destroy or lop vegetation. This does not apply in the following circumstances:

- The removal or destruction of vegetation less than 5 metres in height, or to remove, destroy or lop vegetation of any height listed in the incorporated document *Environmental Weeds*, City of Greater Geelong, September 2008.
- The lopping of vegetation to the minimum extent necessary.
- The removal, destruction or lopping of senescent exotic tree rows.
- The removal, destruction or lopping of vegetation that is dead.
- Regrowth up to 10 years old in areas that were legally cleared.
- The removal or destruction of vegetation within 10 metres of an existing building used for accommodation in the Farming Zone.

A permit is required to construct a fence. This does not apply in the following circumstances:

- Trellising and stockyards associated with agriculture.
- Open post and rail forms of fencing to a maximum height of 1.8 metres.
- Solid fences with a height of 1.2 metres or less.

4.0 Decision guidelines

24/02/2011
C177

Before deciding on an application, the responsible authority must consider, as appropriate:

- Where a proposal is visible across Lake Connewarre, that it:
  - Avoids substantial ground disturbance.
  - Is set back a sufficient distance to allow for the protection of riparian vegetation.
  - Is constructed of suitable materials and colours that minimise distant visibility.
- In rural living areas, the need to ensure the proposal:
  - Uses permeable surfacing for all unbuilt areas to minimise surface run-off and to support vegetation.
  - Retains trees that form part of a continuous canopy beyond the property, and plants new trees in a position where they will add to such a continuous canopy.
  - Utilises vegetation for screening and to delineate property boundaries, instead of fencing.
- The need to ensure the proposal is sited to minimise visual impacts of the buildings and structures from road corridors and publicly accessible land at or near the lakes edge.
- The need to ensure the proposal utilises materials and colours that blend in with the surrounding landscape.

- The need to ensure the proposal minimises the impact of development by grouping buildings in the landscape.
- The retention of existing indigenous trees and understorey, and the planting of new indigenous vegetation to ensure the proposal is integrated with the landscape.
- The use of open style fencing of a type traditionally used in rural areas (ie post and wire) where fencing is necessary.

5.0 Reference documents

24/02/2011
C177

City of Greater Geelong Municipal Reference Document, *Coastal Spaces Landscape Assessment Study* (Planisphere, 2006).

The Siting and Design Guidelines for Structures on the Victorian Coast (Victorian Coastal Council, 1998).

Appendix 2: Geological Map and PASS Map

Geological Map

PASS Map

Appendix 3: Groundwater Bore Data within a 2km Radius

Bore Details:: 80116

Normal Version

Bore Details

Bore ID 80116

Datum	Longitude	Latitude	MGA zone	Easting(m)	Northing(m)
GDA 1994	144.465313	-38.200841	55	278052.4	5768863.7

Surveyed Elevation (m AHD)	Digitised Elevation (m AHD)	Location Accuracy	Total Depth	Completion date
	45.00		75.12	1977-11-01

Bore Authority	Bore type	Bore use 1	Bore use 2	Bore use 3
	Groundwater	Domestic	Stock	

Monitoring status	Monitoring frequency	Parish	Old Bore ID	Local Bore name
Not Monitored				

Construction Details

Driller COLAS S

Drilling method Cable Tool, Percussion

Casing type	Casing diameter	Casing From depth	Casing To depth
	152.0 mm	0.61 m	75.00 m

Screen type	Screen diameter	Screen aperture	Screened from	Screened to	Screened in
			7.62 m	15.55 m	NOT

Aquifer

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source

Water from (m)	Water to (m)	Lithology

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)

Pumping Test	
Pumping test date	1977-11-01 00:00:00
Pump depth (m)	
Pump type	PUM
Pumping rate (l/s)	
Pumping time (hh:mm)	
Drawdown (m)	
Recovery time (hh:mm)	
Pumping data source	

Aquifer parameters	
Transmissivity (m^2/day)	
Hydraulic conductivity (m/d)	
Storativity	
Yield (l/s)	0.13
Data Source	

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source

Water from (m)	Water to (m)	Lithology

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)

Pumping Test	
Pumping test date	1977-11-01 00:00:00
Pump depth (m)	
Pump type	PUM
Pumping rate (l/s)	0.13
Pumping time (hh:mm)	
Drawdown (m)	
Recovery time (hh:mm)	
Pumping data source	

Aquifer parameters	
Transmissivity (m^2/day)	
Hydraulic conductivity (m/d)	
Storativity	
Yield (l/s)	
Data Source	

Monitoring

No water level records available for this bore

Chemistry

No hydrochemistry information available for this bore

Lithology

Lithology details for bore: 80116

Log Type	From (m)	To (m)	Description
Driller	0.00	0.30	TOP SOIL
Driller	0.30	7.62	SANDY CLAY AND GRAVEL
Driller	7.62	9.14	MOTTLED CLAY
Driller	9.14	70.10	BLUE/GREY CLAY
Driller	70.10	75.12	SANDSTONE AND CLAY

Stratigraphy

No stratigraphy information for this bore

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VVG Visualising Victoria's Groundwater

Bore Details:: 80123

Normal Version

Bore Details

Bore ID 80123

Datum	Longitude	Latitude	MGA zone	Easting(m)	Northing(m)
GDA 1994	144.469330	-38.203452	55	278412.1	5768583.6

Surveyed Elevation (m AHD)	Digitised Elevation (m AHD)	Location Accuracy	Total Depth	Completion date
	38.00		3.00	1986-08-19

Bore Authority	Bore type	Bore use 1	Bore use 2	Bore use 3
	Groundwater	Domestic	Stock	

Monitoring status	Monitoring frequency	Parish	Old Bore ID	Local Bore name
Not Monitored				

Construction Details

Driller GLADMAN I

Drilling method Hand Auger

Aquifer

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source

Water from (m)	Water to (m)	Lithology

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)

Pumping Test	
Pumping test date	1986-08-19 00:00:00
Pump depth (m)	
Pump type	BAL
Pumping rate (l/s)	
Pumping time (hh:mm)	
Drawdown (m)	
Recovery time (hh:mm)	
Pumping data source	

Aquifer parameters	
Transmissivity (m^2/day)	
Hydraulic conductivity (m/d)	
Storativity	
Yield (l/s)	0.13
Data Source	

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source

Water from (m)	Water to (m)	Lithology

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)

Pumping Test	
Pumping test date	1986-08-19 00:00:00
Pump depth (m)	
Pump type	BAL
Pumping rate (l/s)	0.13
Pumping time (hh:mm)	
Drawdown (m)	
Recovery time (hh:mm)	
Pumping data source	

Aquifer parameters	
Transmissivity (m^2/day)	
Hydraulic conductivity (m/d)	
Storativity	
Yield (l/s)	
Data Source	

Monitoring

No water level records available for this bore

Chemistry

No hydrochemistry information available for this bore

Lithology

Lithology details for bore: 80123

Log Type	From (m)	To (m)	Description
Driller	0.00	1.22	SANDY LOAM
Driller	1.22	3.00	ORANGE CLAY

Stratigraphy

No stratigraphy information for this bore

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Bore Details:: WRK988036

Normal Version

Bore Details

Bore ID WRK988036

Datum	Longitude	Latitude	MGA zone	Easting(m)	Northing(m)
GDA 1994	144.458438	-38.187940	55	277411.0	5770279.0

Surveyed Elevation (m AHD)	Digitised Elevation (m AHD)	Location Accuracy	Total Depth	Completion date
	14.23		25.00	

Bore Authority	Bore type	Bore use 1	Bore use 2	Bore use 3
	Groundwater			

Monitoring status	Monitoring frequency	Parish	Old Bore ID	Local Bore name
Not Monitored				

Construction Details

Driller NOT KNOWN

Aquifer

No aquifer details available

Monitoring

No water level records available for this bore

Chemistry

No hydrochemistry information available for this bore

Lithology

No lithographical information available for this bore

Stratigraphy

No stratigraphy information for this bore

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FedUniSpatial Groundwater Monitoring Database

Bore Details:: UB_LP1

Normal Version

Bore Details

Bore ID	UB_LP1

Datum	Longitude	Latitude	MGA zone	Easting(m)	Northing(m)
GDA 1994	144.489282	-38.213644	55	280190.0	5767500.0

Surveyed Elevation (m AHD)	Digitised Elevation (m AHD)	Location Accuracy	Total Depth	Completion date
	21.15		3.00	2008-10-22

Bore Authority	Bore type	Bore use 1	Bore use 2	Bore use 3
Federation University Australia	Groundwater	Observation	Groundwater Investigation	

Monitoring status	Monitoring frequency	Parish	Old Bore ID	Local bore name
Currently monitored	Quarterly	MOOLAP		

Construction Details

Driller	R. Smith
Drill rig	Gemco HS7
Drilling method	Mechanical Auger
Bore License	N/A <3m
Headworks height(m)	0.75

Casing/standpipe material	Locked steel case
Collar material	concrete

Casing type	Casing diameter	Casing From depth	Casing To depth
PVC	50.0 mm		1.50 m
PVC	50.0 mm		1.50 m

Screen type	Screen diameter	Screen aperture	Screened from	Screened to	Screened in
Slotted PVC	50 mm	0.50 mm	1.50 m	3.00 m	sandy clay/clayey sand
Slotted PVC	50 mm	0.50 mm	1.50 m	3.00 m	sandy clay/clayey sand

Filter packed from	Filter packed to	Filter pack material
1.50 m	3.00 m	16/30 filter sand
1.50 m	3.00 m	16/30 filter sand

Source	UoB geology
Other source	UB final year geology project (Sam Brayshaw)
Comments	Located at land salinity monitoring site

Bore Attachments/Links

Last update	2010-11-04 09:46:42

Aquifer

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source
	3.00	clayey sand	Moorabool Viaduct Formation (?)	UB geology drilling notres

Water from (m)	Water to (m)	Lithology
0.70	3.00	Sand

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)
1.48	11.70	

Pumping Test

Pumping test date 0000-00-00 00:00:00

Pump depth (m)

Pump type

Pumping rate (l/s)

Pumping time (hh:mm)

Drawdown (m)

Recovery time (hh:mm)

Pumping data source

Aquifer parameters

Transmissivity (m^2/day)

Hydraulic conductivity (m/d)

Storativity

Yield (l/s)

Data Source

Aquifer Summary Details

Aquifer from (m)	Aquifer to (m)	Aquifer material	Aquifer Name	Source
	3.00	clayey sand	Moorabool Viaduct Formation (?)	UB geology drilling notres

Water from (m)	Water to (m)	Lithology
0.70	3.00	Sand

SWL when constructed (m)	EC when constructed (mS/cm)	TDS when constructed (mg/l)
1.48	11.70	

Pumping Test		Aquifer parameters	
Pumping test date	0000-00-00 00:00:00	**Transmissivity** (m^2/day)	
Pump depth (m)		**Hydraulic conductivity** (m/d)	
Pump type	0	**Storativity**	
Pumping rate (l/s)		**Yield** (l/s)	
Pumping time (hh:mm)		**Data Source**	0
Drawdown (m)			
Recovery time (hh:mm)	0		
Pumping data source			

Monitoring

Monitoring for bore: UB_LP1

Date	Measured SWL (m)	Reduced level (mAHD)	Depth below ground (m)	EC (mS/cm)	pH	Temp (°C)	Data Source	Comment	Method	Bore State
Initial Casing Height: 0.760m										
Casing Height Update: 0.730m (22/10/2008)										
2008-10-22	1.48		0.73	11.7		13.5	UB Geology	At construction		
2008-11-12	1.37		0.62		6.9		UB Geology	discharge evident around bore		
2009-02-14	1.49		0.74	8.9	6.9	20.3	UB Geology (Tom Keogh)	water sample taken		
Casing Height Update: 0.760m (19/05/2009)										
2009-05-19	1.59		0.83*	11.0		15.1	UoB(geology)			
2009-08-25	1.09		0.33*	16.0		11.9	UoB(geology)			
2009-11-17	1.30		0.54*	12.2		17.0	UoB(geology)			
2010-02-19	1.48		0.72*	11.4		19.2	UoB(geology)			
2010-05-28	1.67		0.91*	11.4		15.5	UoB(geology)			
2010-	1.12		0.36*	11.7		12.0	UoB(geology)			

08-31						
2010-11-25	0.93	0.18*	9.6	15.7	UoB(geology)	
2011-03-10	1.00	0.25*	8.7	17.6	UoB(geology)	Routine monitoring
2011-06-09	1.02	0.27*	11.4	12.9	UoB(geology)	Routine monitoring
2011-09-14	0.99	0.24*	12.3	12.2	UoB(geology)	Routine monitoring
2011-11-25	1.13	0.38*	10.7	16.2	UoB(geology)	Routine monitoring
2012-03-02	1.20	0.45*	10.8	18.9	UoB(geology)	Routine monitoring
2012-06-08	0.99	0.24*	10.9	13.7	UoB(geology)	Routine monitoring
2012-09-07	0.70	-0.05*	11.0	11.9	UoB(geology)	Routine monitoring
2012-11-30	1.04	0.29*	11.2	16.6	UoB(geology)	Routine monitoring
2013-03-14	1.63	0.88*	9.1	19.9	UoB(geology)	Routine monitoring
2013-05-31	1.32	0.57*	9.2	15.3	UoB(geology)	Routine monitoring
2013-08-16	0.85	0.10*	9.3	12.5	UoB(geology)	Routine monitoring
2013-11-22	1.18	0.43*	9.3	16.1	UoB(geology)	Routine monitoring
2014-03-14	1.55	0.80*	8.5	19.7	UoB(geology)	Routine monitoring

** Depth from NS calculated from Casing Height - Reduced Level*

Chemistry

Hydrochemistry Details

Bore	UB_LP1
Sample date	2009-02-14 00:00:00
Purged?	YES
Sampling method	Pumped
Sampled from (m)	1.50
Sampled to (m)	3.00
Sampled by	T. Keogh (UB)
Analysis by	Ecowise Environmental, Geelong

Field Readings

Electrical Conductivity (EC)	8.92 mS/cm
pH (pH)	6.93
Temperature (Temp)	20.30 °C

Laboratory Readings

Major Ions

Alkalinity ($CO_3^{=}$+HCO_3-)	3.61 meq/L
Bicarbonate ions (HCO_3^{-})	220.00 mg/L
Calcium Ions (Ca^{++})	84.00 mg/l
Chloride ions (Cl^{-})	3200.00 mg/l

Other Ions

Magnesium Ions (Mg^{++})	160.00 mg/l
Potassium Ions (K^{+})	35.00 mg/l
Sodium Ions (Na^{+})	1500.00 mg/l
Sulphate ions ($SO_4^{=}$)	360.00 mg/l

Attachments and links

Attachment 1: UB_LP1_03-03-2009.pdf

Lab result sheet

Lithology

Lithology details for bore: UB_LP1

Log Type	From (m)	To (m)	Description
Geologist	0.00	1.50	Dark brown sandy CLAY, mottled orange, sand becomes coarser with depth
Geologist	1.50	3.00	Brown, mottled orange, clayey SAND ot sandy CLAY

Stratigraphy

Stratigraphy readings for bore: UB_LP1

From (m)	To (m)	Code	Formation	Age
0.00	3.00	Npb	Moorabool Viaduct Formation (?)	Pliocene

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Borehole Details

Borehole Summary Information

Site ID: 80123

Parish Name: MOOLAP 10008

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose: Groundwater — QA By:

Sub Purpose:

Method: Hand Auger — QA By:

Usage: Domestic water supply — QA By:

Status:

Other Names: Rural Water Comm Borehole Name: 080123 — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	AGD66	278300	5768400	55	-38.205	144.468
Calculated	GDA94	278413	5768584	55	-38.203	144.469

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: APPRX; Location Acc: +/- 100m — QA By:

Depth: Measured Depth: 3m — QA By:

Orientation: Collar Inclination: Unknown; Collar Azimuth: Unknown — QA By:

Elevation: Unknown; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Private Individual/Corporation — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 19-Aug-1986 — QA By:

Child Borehole Details: None Recorded

Borehole Details

Borehole Summary Information

Authority:	Rural Water Commission	**QA By:**	GSV-N/A
Regulation:	Groundwater Act	**QA By:**	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	0	Aquifer:	1986
Lithology Logs:	1	References:	1	Construction:	1986
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	1	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	0				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	0				

Borehole Project Details

Project Code	Project Description
LITHO	Lithological Logs

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
66376	DRILLING UNIT, DEPARTMENT OF MINES, VICTORIA., 1992. Parish of Moolap. 10000 series bore register sheets, 1 pp.	

Borehole Tenements

No Borehole Tenements Recorded

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

Drillers Log logged on 23-Sep-1986 - Entered by Boreholes/Wells Administrator

QA By:	

From (m)	To (m)	Material	Condition	Comments
0	1.22	clastic sediment	unconsolidated	sandy loam
1.22	2.999	clay [lithology]	unconsolidated	orange clay

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

No Borehole Geophysical Header Logs and Data Recorded

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

No Down Hole Survey Information Recorded

Borehole Collar Information

No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Borehole Details

Borehole Summary Information

Site ID: 304472

Parish Name: CONEWARRE 08102

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose: General Geological — QA By:

Sub Purpose:

Method: Hand Auger — QA By:

Usage:

Status:

Other Names: Local Borehole Name: Local Name Unknown — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	PRE66	277998	5767752	55	-38.211	144.464
Calculated	GDA94	278110	5767936	55	-38.209	144.466

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: DIGIT; Location Acc: +/- 300m — QA By:

Depth: Measured Depth: 6.09m — QA By:

Orientation: Collar Inclination: Unknown; Collar Azimuth: Unknown — QA By:

Elevation: Unknown; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Private Individual/Corporation — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 31-Dec-1933 — QA By:

Child Borehole Details: None Recorded

Borehole Details

Borehole Summary Information

Authority:	Dept. Manufacturing & Industry	**QA By:**	GSV-N/A
Regulation:	No Regulation	**QA By:**	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	0	Aquifer:	0
Lithology Logs:	1	References:	1	Construction:	0
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	2	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	0				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	0				

Borehole Project Details

Project Code	Project Description
GE030	Project GE0030

Project Code	Project Description
LITHO	Lithological Logs

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
58822	DRILLING UNIT, DEPARTMENT OF MINES, VICTORIA., 1992. Parish of Conewarre. 8000 series bore register sheets, 10 pp.	

Borehole Tenements

No Borehole Tenements Recorded

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

Geologists Log logged on 31-Dec-1933 - Entered by Peter Dahlhaus

QA By:	

From (m)	To (m)	Material	Condition	Comments
0	6.089	silt [material]	unconsolidated	silt

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

No Borehole Geophysical Header Logs and Data Recorded

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

No Down Hole Survey Information Recorded

Borehole Collar Information

No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Borehole Details

Borehole Summary Information

Authority:	Dept. Manufacturing & Industry	**QA By:**	GSV-N/A
Regulation:	No Regulation	**QA By:**	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	0	Aquifer:	0
Lithology Logs:	1	References:	1	Construction:	0
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	2	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	0				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	0				

Borehole Project Details

Project Code	Project Description
GE030	Project GE0030

Borehole Details

Borehole Summary Information

Site ID: 304473

Parish Name: CONEWARRE 08103

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose: General Geological — QA By:

Sub Purpose:

Method: Hand Auger — QA By:

Usage:

Status:

Other Names: Local Borehole Name: Local Name Unknown — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	PRE66	279042	5767253	55	-38.215	144.476
Calculated	GDA94	279154	5767437	55	-38.214	144.477

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: DIGIT; Location Acc: +/- 300m — QA By:

Depth: Measured Depth: 1.52m — QA By:

Orientation: Collar Inclination: Unknown; Collar Azimuth: Unknown — QA By:

Elevation: Unknown; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Private Individual/Corporation — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 31-Dec-1933 — QA By:

Child Borehole Details: None Recorded

Project Code	Project Description
LITHO	Lithological Logs

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
58822	DRILLING UNIT, DEPARTMENT OF MINES, VICTORIA., 1992. Parish of Conewarre. 8000 series bore register sheets, 10 pp.	

Borehole Tenements

No Borehole Tenements Recorded

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

Geologists Log logged on 31-Dec-1933 - Entered by Peter Dahlhaus

QA By:	

From (m)	To (m)	Material	Condition	Comments
0	1.21	silt [material]	unconsolidated	silt
1.21	1.519	clay [lithology]	unconsolidated	sandy clay

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

No Borehole Geophysical Header Logs and Data Recorded

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

No Down Hole Survey Information Recorded

Borehole Collar Information

No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Borehole Details

Borehole Summary Information

Site ID: 304474

Parish Name: CONEWARRE 08104

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose: General Geological — QA By:

Sub Purpose:

Method: Hand Auger — QA By:

Usage:

Status:

Other Names: Local Borehole Name: Local Name Unknown — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	PRE66	279489	5766981	55	-38.218	144.481
Calculated	GDA94	279601	5767165	55	-38.217	144.482

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: DIGIT; Location Acc: +/- 300m — QA By:

Depth: Measured Depth: 5.79m — QA By:

Orientation: Collar Inclination: Unknown; Collar Azimuth: Unknown — QA By:

Elevation: Unknown; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Private Individual/Corporation — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 31-Dec-1933 — QA By:

Child Borehole Details: None Recorded

Borehole Details

Borehole Summary Information

Authority:	Dept. Manufacturing & Industry	**QA By:**	GSV-N/A
Regulation:	No Regulation	**QA By:**	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	0	Aquifer:	0
Lithology Logs:	1	References:	1	Construction:	0
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	2	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	0				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	0				

Borehole Project Details

Project Code	Project Description
GE030	Project GE0030

Project Code	Project Description
LITHO	Lithological Logs

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
58822	DRILLING UNIT, DEPARTMENT OF MINES, VICTORIA., 1992. Parish of Conewarre. 8000 series bore register sheets, 10 pp.	

Borehole Tenements

No Borehole Tenements Recorded

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

Geologists Log logged on 31-Dec-1933 - Entered by Peter Dahlhaus

QA By:	

From (m)	To (m)	Material	Condition	Comments
0	0.3	null [inapplicable]	null [unknown]	water
0.3	5.789	silt [material]	unconsolidated	silt

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

No Borehole Geophysical Header Logs and Data Recorded

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

No Down Hole Survey Information Recorded

Borehole Collar Information

No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Borehole Details

Borehole Summary Information

Site ID: 304475

Parish Name: CONEWARRE 08105

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose: General Geological — QA By:

Sub Purpose:

Method: Hand Auger — QA By:

Usage:

Status:

Other Names: Local Borehole Name: Local Name Unknown — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	PRE66	279975	5766707	55	-38.221	144.487
Calculated	GDA94	280087	5766891	55	-38.219	144.488

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: DIGIT; Location Acc: +/- 300m — QA By:

Depth: Measured Depth: 9.14m — QA By:

Orientation: Collar Inclination: Unknown; Collar Azimuth: Unknown — QA By:

Elevation: Unknown; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Private Individual/Corporation — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 31-Dec-1933 — QA By:

Child Borehole Details: None Recorded

Borehole Details

Borehole Summary Information

Authority:	Dept. Manufacturing & Industry	**QA By:**	GSV-N/A
Regulation:	No Regulation	**QA By:**	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	0	Aquifer:	0
Lithology Logs:	1	References:	1	Construction:	0
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	2	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	0				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	0				

Borehole Project Details

Project Code	Project Description
GE030	Project GE0030

Project Code	Project Description
LITHO	Lithological Logs

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
58822	DRILLING UNIT, DEPARTMENT OF MINES, VICTORIA., 1992. Parish of Conewarre. 8000 series bore register sheets, 10 pp.	

Borehole Tenements

No Borehole Tenements Recorded

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

Geologists Log logged on 31-Dec-1933 - Entered by Peter Dahlhaus

QA By:	

From (m)	To (m)	Material	Condition	Comments
0	8.83	silt [material]	unconsolidated	silt and sand
8.83	9.139	clay [lithology]	unconsolidated	clay

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

No Borehole Geophysical Header Logs and Data Recorded

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

No Down Hole Survey Information Recorded

Borehole Collar Information

No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Borehole Details

Borehole Summary Information

Site ID: 943747

Parish Name: MOOLAP 20024

Overall Borehole QA Status: Data without a Quality Assured (QA) status below has not yet been checked.

Properties:

Purpose:

Sub Purpose: Phosphate — QA By:

Method: Rotary (diamond/drag bit) — QA By:

Usage:

Status: Completed — QA By:

Other Names: Local Borehole Name: 72/12 — QA By:

Prospect: Otway Basin Victoria (Esso) — QA By:

Location:

	Datum	MGAEm	MGANm	MGA Zone	Latitude	Longitude
Original	AGD66	279677.45	5767135.67	55	-38.217	144.483
Calculated	GDA94	279790	5767320	55	-38.215	144.485

QA By:

Maps: Leopold (7721.1.2); 1:25000

Location Method: R_AMG; Location Acc: +/- nullm — QA By:

Depth: Measured Depth: 32.004m — QA By:

Orientation: Collar Inclination: -90; Collar Azimuth: 0 — QA By:

Elevation: 30.48m; Kelly Bush: Unknown; Elevation Acc: Unknown — QA By:

Operator: Esso Mineral Co of Australia — QA By:

Contractor: Unknown (or Not Specified) — QA By:

Completed On: 02-Mar-1967

Borehole Details

Borehole Summary Information

		QA By:	
Child Borehole Details:	None Recorded		
Authority:	Dept. Manufacturing & Industry	QA By:	GSV-N/A
Regulation:	Mineral Res. Sus. Devl. (1990)	QA By:	GSV-N/A

Contact: Selected core is available for inspection at the Earth Resources Core Library. For more information visit:

http://www.dpi.vic.gov.au/minpet/core

Available Data

Attributes		Links		External Data	
Core Samples:	0	Tenements:	1	Aquifer:	0
Lithology Logs:	0	References:	1	Construction:	0
Qualitative Logs:	0	Surveys:	0	Water Chem:	0
Quantitative Logs:	0	Projects:	1	Water Level:	0
Stratigraphic Logs:	0	Notes:	0	Pump Test:	0
Biostratigraphy:	0	Petroleum Wells:	0		
Geophysical Logs:	1				
Geothermal Readings:	0				
Collar Data:	0				
Downhole Survey:	1				

Borehole Project Details

Project Code	Project Description
MBH05	Mineral borehole capture #5; Dec '03 to Feb '05; IO Digital; Melbourne and Queenscliff 250K sheets and parts of Colac, Ballarat, Bendigo and Warburton 250K sheets

Borehole Notes

No Borehole Notes Recorded

Borehole References

Ref. ID	Reference Text	QA By:
9434	EDDINGTON, S.M., 1967. Esso Mineral Co of Australia. EL 64, EL 65 and EL 72, Otway Basin. Phosphate. Quarterly report for period ending June 1967. Earth Resources Division Expired Exploration Reports File.	

Borehole Tenements

Site_Id	Title_Type	Title_Number	Title_Suffix	Status	First_Grant	Expiry_Date	QA By:
943747	EL	72		CANC	20-Mar-1967	23-Aug-1967	

Core Samples

No Borehole Core Samples Recorded

Lithological Logs

No Borehole Lithological Logs Recorded

Borehole Quantitative Logs

No Borehole Quantitative Logs Recorded

Borehole Qualitative Logs

No Borehole Qualitative Logs Recorded

Stratigraphy Logs

No Borehole Stratigraphy Recorded

Biostratigraphy Logs

No Borehole Biostratigraphy Recorded

Borehole Geophysical Header Logs and Data

Seq #	Type	Header	Calibre	Digital	Quality	Log Up	Log Down	Log Stored	Location	Company	From Depth (m)	To Depth (m)	QA By:
4994	Gamma				U	0	0	0	Unknown or Undefined Section	Esso Mineral Co of Australia	0	32.004	

Geothermal Readings

No Geothermal Readings Recorded

Down Hole Survey Information

Depth (m)	Inclination	Azimuth	Survey Method
0	-90	0	Unknown downhole survey method

Borehole Collar Information

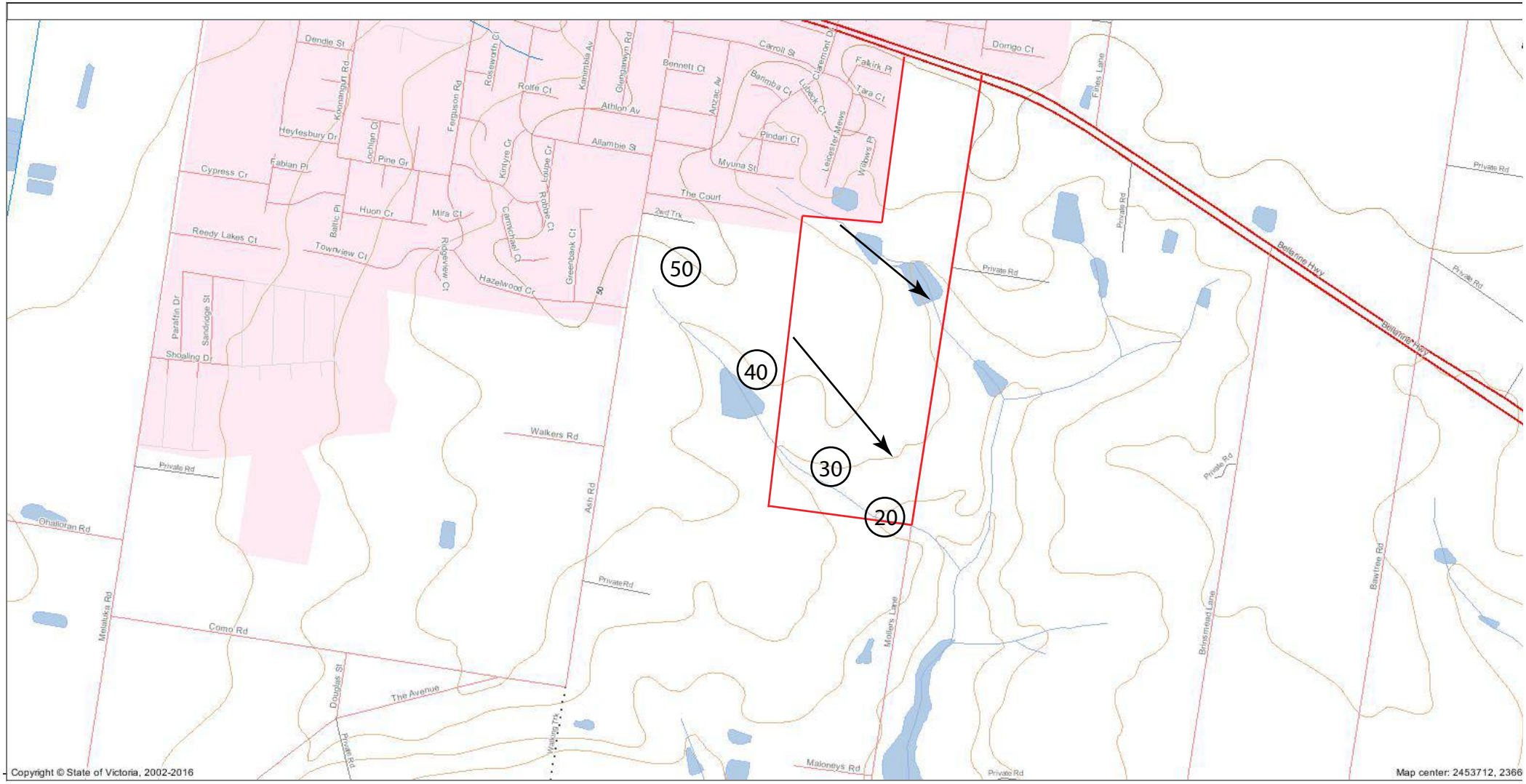
No Borehole Collar Information Recorded

Petroleum Wells

No Petroleum Wells Information Recorded

Appendix 4: Contour Map for the Site

CONTOUR MAP 2-120 MOLLERS LANE



THIS MAP NOT INTENDED FOR NAVIGATIONAL USE

→ Inferred Groundwater Flow

▭ Site Location

(40) Elevation (m AHD)

Appendix 5: Environmental Site Assessments Pty Ltd ('ESA') – Limited Due Diligence Report ESA/160/2015 & Limited Due Diligence Report Report ESA/189/2015

LIMITED DUE DILIGENCE REPORT

42-90 Mollers Lane, Leopold

Prepared for
TGM Group P/L

Environmental Site Assessments

office@esagroup.com.au | 0433 747 187 | www.esagroup.com.au

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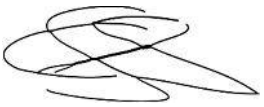
Environmental Site Assessments Pty Ltd
PO Box 3106
Waurn Ponds 3216
Phone: 0433 747 187

Report Title:	Limited Due Diligence Report – 42-90 Mollers Lane, Leopold	
Doc. Ref:	ESA/160/2015	
Client:	TGM Group P/L	
Signatures:	Prepared by: Andrew Wigley Senior Environmental Scientist	Authorised by:  Seton Lillas BSc *Waik.* MEIANZ Managing Director

Revision Status

Revision #	Status	Date	Writer	Reviewer
2	Final	31/08/2015	A. Wigley	S. Lillas

Documents Distribution

Revision #	Number of copies	Type	Recipient	Position and Company
2	1	Email	P.Preece	Director (Infrastructure) – TGM Group
2	1	Email	C.Marshall	Group Manager (Town Planning) – TGM Group

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Appendices

Appendix 1 – PID Calibration Form

Appendix 2 – Chain of Custody Forms and Certificates of Analysis

Appendix 3 – Comparison Tables

Appendix 4 – Sample Points

1.0 BACKGROUND

Environmental Site Assessments ('ESA') was engaged by TGM Group ('the Client') to conduct a limited soil investigation on the subject site, which is located at 42-90 Mollers Lane, Leopold ('the Site').

The site is currently a farm used for growing crops that is zoned as Farm Zone (FZ). The client wishes to know whether the site is suitable for residential reuse based on the results of a limited soil investigation.

2.0 SCOPE OF WORKS

The following scope of works was approved by TGM Group to address this:

- Collection and analysis of ten primary soil samples at a NATA accredited laboratory for the following contaminants of potential concern ('COPCs'):
- 2 x NEPM (2013) Suite of Analytes
- 8 x OC/OP
- 8 x 8 Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)
- Production of a report comparing the analytical results with the NEPM guidelines[1] for residential use.

3.0 RESULTS OF ANALYSIS

Based on the results obtained from this sampling program, the soils investigated were found to be suitable for reuse in a residential setting.

The following sections describe the guidelines, standards and investigation methods adopted for the soil sampling program.

4.0 SOIL SAMPLING PROGRAM

4.1 Relevant Guidelines and Standards

The sampling program was undertaken in accordance with the following guidelines, standards and policies:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- Australia Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999).
- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002

4.2 Quality Assurance / Quality Control

4.2.1 Environmental Site Assessments Quality Assurance (QA) Program

Environmental Site Assessments has developed and implemented a Quality Assurance Program in general accordance with the following guidelines:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- National Environment Protection Council ('NEPC') - National Environment Protection (Assessment of Site Contamination) Measure (NEPM) - Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils, 1999 (Amended 2013).

As part of the Quality Assurance Program, Environmental Site Assessments ensures that the following methodology is employed:

- The use of appropriately qualified and trained environmental scientists to perform intrusive works.
- The use of standardised field sheets to record the findings of the site investigations.
- The collection and analysis of Quality Control samples as per AS 4482.1.
- The use of Chain of Custody procedures to ensure that sample integrity is maintained through the transport and handling stages.
- Only using NATA accredited laboratories for the analysis of samples collected during the investigation activities.

[1] National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)

As per the Environmental Site Assessments Quality Assurance Program, the following data quality indicators were used for the assessment of the laboratory analytical data:

- All sample analysis to be conducted using NATA registered methods in accordance with NEPM 1999 (Amended 2013) guidelines.
- Laboratory method blank analysis required to be below the Limit of Reporting ('LOR').
- Surrogate compound concentrations required to be spiked at similar concentrations to the sample result.

4.2.2 Environmental Site Assessments Quality Control ('QC') Program

The overall precision of laboratory split samples and laboratory duplicates is generally assessed by their Relative Percentage Difference ('RPD').

The RPD of duplicated analyses were calculated and compared to the following criteria for acceptability. The acceptance criteria are listed in AS4482.1 (2005):

- Less than 30% for laboratory duplicates where the detection is less than 10 times the LOR
- Less than 20% for laboratory duplicates where the detection is greater than 10 times the LOR
- RPDs for control spike duplicates will be compared to an acceptable limit of 20%
- RPDs for matrix spike duplicates will be compared to an acceptable limit of 20%, and
- Percentage recoveries of control spikes and matrix spikes will be compared to an acceptable range of 70% – 130%. Where this range is exceeded, reference to the laboratories internal data quality objective limits will be made. In addition, percentage recoveries of surrogates will also be compared to the USEPA surrogate recovery limits.

4.2.3 Sample Documentation

All samples collected were labelled in a clear and precise way for proper identification in the field and for tracking in the laboratory.

The samples had identifiable and unique numbers. The sample labels contained the following information:

- Company name
- Name of sampler
- Sample ID
- Date/Time sample was collected.

Chain-of-custody forms were used to document sample collection and transport to laboratories for analysis. All sample transports for analysis were accompanied by a chain-of-custody form.

Forms were completed and sent with the samples for each laboratory and each transport. If multiple coolers were sent to a single laboratory on a single day, forms were completed and sent with the samples for each cooler.

The chain-of-custody forms identified the contents of each transport and maintained the custodial integrity of the samples. The coolers in which samples were stored were sealed with self-adhesive custody seals. All custody seals were signed. The chain of custody forms are attached to **Appendix 2**.

4.2.4 Packaging and Transport

All sample containers were placed in a plastic cooler. The following outlines the packaging procedures that were followed for samples:

- When ice was used, it was packed in zip-locked, double plastic bags. The drain plug of the cooler was sealed with fiberglass tape to prevent melting ice from leaking out of the cooler.
- The bottom of the cooler was lined with bubble wrap to prevent breakage during transport.
- All glass sample containers were enclosed in bubble wrap to prevent breakage.
- Where required, empty space in the cooler was filled with bubble wrap to prevent movement and breakage during transport.
- Ice used to cool samples was placed on top and around the samples to chill them to the correct temperature.
- Each cooler was securely taped shut with signed custody seals.

4.2.5 Field Notes

The following information was recorded during the collection of samples:

- Sample location and description
- Sampling area sketch showing sample location and measured distances (where required)
- Sampler's name(s)
- Date and time of sample collection
- Sample ID

- Type of soil/material encountered (Fill, Natural etc.)
- GPS Coordinates
- Photoionisation Detector ('PID') readings
- Field observations and details related to analysis or integrity of samples (e.g., weather conditions, noticeable odours, colours etc.)
- Soil descriptions as per AS1726-1993
- Sample preservation details.

4.3 Analytical Results

This sampling program was undertaken on site on 20 August 2015. A hand auger and gloved hand were used to collect samples from ten sample points across the site (See **Appendix 4**).

Table 4.3 illustrates the samples that were collected for analysis.

Sample ID	Sampling Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
SP01/0-0.15	SP01	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP02/0-0.15	SP02	0-0.15	NEPM Suite*	0.0/Nil	Nil
SP03/0-0.15	SP03	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP04/0-0.15	SP04	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP05/0-0.15	SP05	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP06/0-0.15	SP06	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP07/0-0.15	SP07	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP08/0-0.15	SP08	0-0.15	NEPM Suite*	0.0/Nil	Nil
SP09/0-0.15	SP09	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP10/0-0.15	SP10	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil

* = 15 Metals including As, Ba, Be, B, Cd, Cr, Co, Cu, Hg, Mn, Ni, Pb, Se V, Zn, TRH (C6-C36 or 40) / BTEXN, PAH/Phenols (16 PAHs & 12 Phenols), OC/OP Pesticides Including Triazine, Pesticides (Atrazine) and Bifenthrin, PCB, Cyanide – WAD, Chromium – Hexavalent (Alkaline Leach)

4.3.1 Photoionisation Calibration

The photoionisation detector ('PID') was calibrated prior to sample collection. The PID calibration sheet is attached to **Appendix 1**. All samples were analysed using the PID and the results are shown in Table 4.3.

4.3.2 Results of Analysis

Australian Laboratory Services Pty Ltd ('ALS') was used for conducting the soil analysis. ALS are NATA certified for the analysis undertaken.

The comparison tables for laboratory results are attached in **Appendix 3**. All chain of custody forms, certificates of analysis and laboratory QA/QC documents are in **Appendix 2.**

The laboratory results were compared with:

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013) HIL A.

The results were as follows:

- All results were below the upper thresholds of HIL A for low density residential reuse.
- No comparison was required against HSLs, ESLs or Management Limits based on the results.

4.3.3 Laboratory QA/QC

As part of their NATA accreditation, ALS perform internal duplicate analysis of samples for comparison of results to demonstrate precision. Laboratory standards including matrix spike samples, laboratory control samples and surrogates are also conducted as a basis to demonstrate accuracy. In addition, internal laboratory blank samples are run to assess the potential for laboratory equipment errors. The laboratory QA/QC results are attached in **Appendix 2.**

4.3.3.1 ALS Environmental Laboratory

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- No Laboratory Control outliers occur.
- No Surrogate Recovery outliers occur.

4.3.3.2 Sample Holding Times and Sample Receipt Temperature

Sample holding times were within acceptable ranges from collection to extraction. The documented temperature of samples upon receipt at the respective laboratory was within an acceptable range.

4.3.3.3 Conclusion

A review of the laboratory reports indicates that ALS has met their internal acceptance criteria for the quality control samples.

5.0 CONCLUSIONS

All of the soil samples analysed were suitable for use in a residential setting in line with ASC NEPM (1999, Amended) guidelines.

As such, it is believed that based on the results of this investigation the site is suitable for its intended use as a residential property.

6.0 REFERENCES

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005)
- Australia Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999)
- Australian Standard (AS 1726 -1993) – Geotechnical Site Investigations (Standards Australia, 1993)
- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002
- Environment Protection Act 1970, Victoria. Act No 8056/1970
- Industrial Waste Resource Guidelines (IWRG): Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication IWRG701, EPA Victoria, June 2009
- Industrial Waste Resource Guidelines (IWRG): Soil Sampling, Publication IWRG702, EPA Victoria, June 2009

DISCLAIMER

This disclaimer, together with any limitations specified in the report, applies to use of this report.

This report was prepared in accordance with a contracted scope of services. There were a series of cost, time and other constraints, which have affected the accuracy, and completeness of investigations undertaken.

This report has been prepared solely for use by, and is confidential to; the client who contracted the scope of services and Environmental Site Assessments accepts no responsibility for its use by other persons.

The contract for the preparation of this report contains express limitations upon the liability of Environmental Site Assessments, which should be considered carefully. This report is subject to copyright protection and the copyright owner reserves its rights. This report does not constitute legal advice.

This report must be read in conjunction with the Statement of Qualifications and Limitations contained within it.

STATEMENT OF QUALIFICATIONS AND LIMITATIONS

It is not possible to identify all contamination or potential contaminants in or under the surface of the site. This is an intrinsic risk when investigating potentially and contaminated sites. As such, Environmental Site Assessments has prepared the following information, which details the limitations of this environmental report.

In preparing this report, Environmental Site Assessments has relied on client/ third party information, which was not verified by Environmental Site Assessments, and Environmental Site Assessments does not accept responsibility for omissions or inaccuracies in the client/ third party information.

This report is based solely on the specific instructions received from its client and/or the scope of works agreed between Environmental Site Assessments and its client. Those instructions and/or scope of work may not be fully described in this report.

This report is based on the site conditions identified at the time of inspection. It is not possible to identify all contamination or potential contaminants in or under the surface of the site.

Investigations undertaken in respect of this report may have been constrained by the particular site conditions, such as the location of buildings, services and vegetation. Further, changes that may have occurred after inspection.

As a result of these matters, not all relevant site history, contaminants or potential for contamination may have been identified in this report.

No warranties express or implied, as to the accuracy or completeness of the matters contained within it are made.

Although normal standards of professional practice have been applied, the absence of any identified potential for air, soil or groundwater impacts on the subject property should not be interpreted as a conclusion that impacts do not exist on the site.

Subsurface conditions can vary across a particular site, which cannot be wholly defined by investigation.

As a result, it is unlikely that the results and estimations presented in this report will reflect the extremes of conditions within the site. Subsurface conditions including impact concentrations can change in a limited period of time. Any information provided may be based on "spot" tests. Conditions may vary between or beyond those locations from the interpreted conditions based on the actual data.

The analyses, evaluations, opinions and conclusions presented in this report are based on the information provided, and they could change if the information is in fact found to be unrepresentative of conditions between sampling and analysis locations.

The assessment and remediation of contamination is a developing science. Clean Up technology is constantly changing as scientific information on data collection, risk assessment, toxicology and remediation technologies are published. Further, opinions can vary as to the criterion for whether particular conditions constitute contamination, and if so how that contamination should be addressed or remediated. Different persons might reasonably or otherwise form opinions different to those of Environmental Site Assessments.

Use of the site for any purpose may require planning and other approvals and, in some cases, EPA and accredited site auditor approvals. Environmental Site Assessments offers no opinion as to the likelihood of obtaining any such approvals, or the conditions and obligations, which such approvals may impose, which may include the requirement for significant environment works.

The ongoing use of the site or use of the site for a different purpose may require the owner/ user to manage and/ or remediate site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works or demolition works unless used in conjunction with a specification detailing the extent of the works.

To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

Environmental Site Assessments makes no determination or recommendation regarding a decision whether to acquire or provide financing with respect to the site.

Environmental Site Assessments

Attachment 1: Field Forms

Environmental
Site Assessments

Date:	20/8/15	Site Address:	42-90 MOLLERS LANE, LEOPOLD
Project Manager:	ANDREW WILMEY	Other Staff:	—
Site Description:	FARM LAND, CROPS		
Weather Conditions:	OVERCAST, COLD, WINDY		
Rationale for any judgmental sampling:			
Container type:	125mL GLASS JAR		
Sample storage and preservation conditions:	ESKIE & ICE		

Sample ID	Date/Time Collected	Sampler Name	GPS Coordinates	Depth of Sample	Soil Type (e.g. fill or natural soil)	Odour/PID	Visual Contamination
SP1/0-0.15	20/8/15 9:55	AW	—	0-0.15	FILL	Nil/0.0	N:1
SP2/0-0.15	" 10:00	"	—	"	"	"	"
SP3/0-0.15	" 10:05	"	—	"	"	"	"
SP4/0-0.15	" 9:45	"	—	"	"	"	"
SP5/0-0.15	" 9:35	"	—	"	"	"	"
SP6/0-0.15	" 9:20	"	—	"	"	"	"
SP7/0-0.15	" 9:50	"	—	"	"	"	"
SP8/0-0.15	" 9:30	"	—	"	"	"	"
SP9/0-0.15	" 9:15	"	—	"	"	"	"

Environmental
Site Assessments

Sample ID	Date/Time Collected	Sampler Name	GPS Coordinates	Depth of Sample	Soil Type (e.g. fill or natural soil)	Odour/PID	Visual Contamination
SP10/0-0.15	20/8/15 10:15	AW	—	0-0.15	NAT	Nil/0.0	Nil
QC1 (FB)	" 9:00	"	—	—	—	—	—
QC2 (TB)	" —	"	—	—	—	—	—

Environmental
Site Assessments

Project Name	TAM LEOPOLD	Calibrated By	ANDREW WHELEY
Project Address	42-90 MOLLERS LANE, LEOPOLD	Date	20/08/15

Sensor	Type	Serial Number	Span Gas	Concentration	Reading	
					Zero	Span
PID	10.6ev	1062P83010	Isobutylene	100ppm	0	100

PID CALIBRATION FORM

Environmental Site Assessments

Attachment 2: Chain of Custody Forms and Certificates of Analysis

CHAIN OF CUSTODY

ALS Laboratory: please tick →

☐ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsglobal.com
☐BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com
☐GLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com
☐MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com
☑MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com
☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee mail@alsglobal.com
☐NEWCASTLE 5 Rose Gum Road Warabrook NSW 2304 Ph: 02 4968 9433 E: samples.newcastle@alsglobal.com
☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com
☐PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com
☐SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal.com
☐TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com
☐WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

CLIENT: Environmental Site Assessments	TURNAROUND REQUIREMENTS : (Standard TAT may be longer for some tests e.g. Ultra Trace Organics)	☑ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
OFFICE: PO BOX 3106, WAURN PONDS, VIC 3216		☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
PROJECT: LEOPOLD	ALS QUOTE NO.:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Free ice / frozen ice bricks present upon receipt? Yes No N/A
ORDER NUMBER: —		OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: SETON LILLAS	CONTACT PH: 0433 747 187		Other comment:
SAMPLER: ANDREW WIGLEY	SAMPLER MOBILE: 0439 135 516	RELINQUISHED BY: AW DATE/TIME: 20/08/15	RECEIVED BY: DATE/TIME:
COC emailed to ALS? (YES / NO)	EDD FORMAT (or default):		RELINQUISHED BY: DATE/TIME:
Email Reports to: andrew@envirositeassessments.com			RECEIVED BY: DATE/TIME: 20/8, 14:45
Email Invoice to: accounts@envirositeassessments.com			

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).							Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL CONTAINERS	NEPM Suite B1 + B2 + B3	OC/OP S-12	B) Metals S-2	EGA 15				Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	SP1/0-0.15	20/8/15 9:55	S	125mL Glass Jar	1		X	X					
2	SP2/0-0.15	" 10:00	S	"	1	X							
3	SP3/0-0.15	" 10:05	S	"	1		X	X					
4	SP4/0-0.15	" 9:45	S	"	1		X	X					
5	SP5/0-0.15	" 9:35	S	"	1		X	X					
6	SP6/0-0.15	" 9:20	S	"	1		X	X					
7	SP7/0-0.15	" 9:50	S	"	1		X	X					
8	SP8/0-0.15	" 9:30	S	"	1	X							
9	SP9/0-0.15	" 9:15	S	"	1		X	X					
10	SP10/0-0.15	" 10:15	S	"	1		X	X					
11	QC1	20/8/15 BN	W 21/8	500mL Amber, 40mL Vial, 50mL Plastic	3							X	
12	QC2	↓	W	40mL Vial	1							X	
				TOTAL	14	2	8	8				2	

Environmental Division Melbourne
Work Order Reference
EM1513549
Telephone : +61-3-8549 9600

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: **EM1513549**		
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	Page	: 1 of 3
Order number	: ----	Quote number	: EM2015ENVSITASS0064 (MEBQ/159/15)
C-O-C number	: ----	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Site	: ----		
Sampler	: ANDREW WIGLEY		

Dates

Date Samples Received	: 20-Aug-2015 2:15 PM	Issue Date	: 21-Aug-2015
Client Requested Due Date	: 27-Aug-2015	Scheduled Reporting Date	: **27-Aug-2015**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 2.5 - Ice present
Receipt Detail	:	No. of samples received / analysed	: 12 / 10

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.
- **Analytical work for this work order will be conducted at ALS Melbourne.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exist.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA055-103 Moisture Content	SOIL - P-21/1 (Melb) NEPM (2013) HIL Table 1A(1) Screen	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-12 OC/OP Pesticides
EM1513549-001	20-Aug-2015 09:55	SP1/0-0.15	✓		✓	✓
EM1513549-002	20-Aug-2015 10:00	SP2/0-0.15	✓	✓		
EM1513549-003	20-Aug-2015 10:05	SP3/0-0.15	✓		✓	✓
EM1513549-004	20-Aug-2015 09:45	SP4/0-0.15	✓		✓	✓
EM1513549-005	20-Aug-2015 09:35	SP5/0-0.15	✓		✓	✓
EM1513549-006	20-Aug-2015 09:20	SP6/0-0.15	✓		✓	✓
EM1513549-007	20-Aug-2015 09:50	SP7/0-0.15	✓		✓	✓
EM1513549-008	20-Aug-2015 09:30	SP8/0-0.15	✓	✓		
EM1513549-009	20-Aug-2015 09:15	SP9/0-0.15	✓		✓	✓
EM1513549-010	20-Aug-2015 10:15	SP10/0-0.15	✓		✓	✓

Matrix: **WATER**

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) WATER No analysis requested
EM1513549-011	[20-Aug-2015]	QC1	✓
EM1513549-012	[20-Aug-2015]	QC2	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice (INV)	Email	accounts@envirositeassessments.com

ANDREW WIGLEY

- *AU Certificate of Analysis - NATA (COA)	Email	andrew@esagroup.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	andrew@esagroup.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	andrew@esagroup.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	andrew@esagroup.com.au
- A4 - AU Tax Invoice (INV)	Email	andrew@esagroup.com.au
- Chain of Custody (CoC) (COC)	Email	andrew@esagroup.com.au
- EDI Format - ENMRG (ENMRG)	Email	andrew@esagroup.com.au
- EDI Format - ESDAT (ESDAT)	Email	andrew@esagroup.com.au

RESULTS ADDRESS

- *AU Certificate of Analysis - NATA (COA)	Email	office@esagroup.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	office@esagroup.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	office@esagroup.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	office@esagroup.com.au
- A4 - AU Tax Invoice (INV)	Email	office@esagroup.com.au
- Chain of Custody (CoC) (COC)	Email	office@esagroup.com.au
- EDI Format - ENMRG (ENMRG)	Email	office@esagroup.com.au
- EDI Format - ESDAT (ESDAT)	Email	office@esagroup.com.au

SETON LILLAS

- *AU Certificate of Analysis - NATA (COA)	Email	seton@envirositeassessments.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	seton@envirositeassessments.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	seton@envirositeassessments.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	seton@envirositeassessments.com
- A4 - AU Tax Invoice (INV)	Email	seton@envirositeassessments.com
- Chain of Custody (CoC) (COC)	Email	seton@envirositeassessments.com
- EDI Format - ENMRG (ENMRG)	Email	seton@envirositeassessments.com
- EDI Format - ESDAT (ESDAT)	Email	seton@envirositeassessments.com

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1513549**	Page	: 1 of 12
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 20-Aug-2015 14:15
C-O-C number	: ----	Date Analysis Commenced	: 21-Aug-2015
Sampler	: ANDREW WIGLEY	Issue Date	: 25-Aug-2015 13:40
Site	: ----		
		No. of samples received	: 12
Quote number	: ----	No. of samples analysed	: 10

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics
Xing Lin	Senior Organic Chemist	Melbourne Organics

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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP1/0-0.15	SP2/0-0.15	SP3/0-0.15	SP4/0-0.15	SP5/0-0.15
			Client sampling date / time	20-Aug-2015 09:55	20-Aug-2015 10:00	20-Aug-2015 10:05	20-Aug-2015 09:45	20-Aug-2015 09:35
Compound	CAS Number	LOR	Unit	EM1513549-001	EM1513549-002	EM1513549-003	EM1513549-004	EM1513549-005
				Result	Result	Result	Result	Result
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1	%	10.4	12.1	17.3	12.0	10.2
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	10	----	----	----
Beryllium	7440-41-7	1	mg/kg	----	<1	----	----	----
Boron	7440-42-8	50	mg/kg	----	<50	----	----	----
Cobalt	7440-48-4	2	mg/kg	----	<2	----	----	----
Manganese	7439-96-5	5	mg/kg	----	12	----	----	----
Selenium	7782-49-2	5	mg/kg	----	<5	----	----	----
Vanadium	7440-62-2	5	mg/kg	----	20	----	----	----
Arsenic	7440-38-2	5	mg/kg	<5	6	18	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	4	6	22	4	3
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	5	<5	14	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	9	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	5	7	<5	6
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP1/0-0.15	SP2/0-0.15	SP3/0-0.15	SP4/0-0.15	SP5/0-0.15
				Client sampling date / time	20-Aug-2015 09:55	20-Aug-2015 10:00	20-Aug-2015 10:05	20-Aug-2015 09:45	20-Aug-2015 09:35
Compound	CAS Number	LOR	Unit		EM1513549-001	EM1513549-002	EM1513549-003	EM1513549-004	EM1513549-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		**0.20**	<0.05	<0.05	**0.20**	**0.14**
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	**0.08**	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.20**	<0.05	<0.05	**0.20**	**0.14**
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg		<0.05	<0.05	<0.05	**0.08**	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	**0.06**	**0.06**	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP1/0-0.15	SP2/0-0.15	SP3/0-0.15	SP4/0-0.15	SP5/0-0.15
				Client sampling date / time	20-Aug-2015 09:55	20-Aug-2015 10:00	20-Aug-2015 10:05	20-Aug-2015 09:45	20-Aug-2015 09:35
Compound	CAS Number	LOR	Unit		EM1513549-001	EM1513549-002	EM1513549-003	EM1513549-004	EM1513549-005
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP1/0-0.15	SP2/0-0.15	SP3/0-0.15	SP4/0-0.15	SP5/0-0.15
				Client sampling date / time	20-Aug-2015 09:55	20-Aug-2015 10:00	20-Aug-2015 10:05	20-Aug-2015 09:45	20-Aug-2015 09:35
Compound	CAS Number	LOR	Unit		EM1513549-001	EM1513549-002	EM1513549-003	EM1513549-004	EM1513549-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	----	----
>C10 - C16 Fraction	>C10_C16	50	mg/kg		----	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		----	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**92.9**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP1/0-0.15	SP2/0-0.15	SP3/0-0.15	SP4/0-0.15	SP5/0-0.15
				Client sampling date / time	20-Aug-2015 09:55	20-Aug-2015 10:00	20-Aug-2015 10:05	20-Aug-2015 09:45	20-Aug-2015 09:35
Compound	CAS Number	LOR	Unit		EM1513549-001	EM1513549-002	EM1513549-003	EM1513549-004	EM1513549-005
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%		77.4	86.3	94.2	86.4	77.1
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		87.2	68.5	74.0	108	111
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	79.0	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	99.1	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	66.0	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	101	----	----	----
Anthracene-d10	1719-06-8	0.5	%		----	107	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	93.4	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	109	----	----	----
Toluene-D8	2037-26-5	0.2	%		----	95.6	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	77.0	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP6/0-0.15	SP7/0-0.15	SP8/0-0.15	SP9/0-0.15	SP10/0-0.15
			Client sampling date / time	20-Aug-2015 09:20	20-Aug-2015 09:50	20-Aug-2015 09:30	20-Aug-2015 09:15	20-Aug-2015 10:15
Compound	CAS Number	LOR	Unit	EM1513549-006	EM1513549-007	EM1513549-008	EM1513549-009	EM1513549-010
				Result	Result	Result	Result	Result
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1	%	8.6	11.6	19.6	21.9	17.5
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	----	<10	----	----
Beryllium	7440-41-7	1	mg/kg	----	----	<1	----	----
Boron	7440-42-8	50	mg/kg	----	----	<50	----	----
Cobalt	7440-48-4	2	mg/kg	----	----	<2	----	----
Manganese	7439-96-5	5	mg/kg	----	----	20	----	----
Selenium	7782-49-2	5	mg/kg	----	----	<5	----	----
Vanadium	7440-62-2	5	mg/kg	----	----	11	----	----
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	2	3	4	2	18
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	6
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	<0.5	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	1	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	----	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP6/0-0.15	SP7/0-0.15	SP8/0-0.15	SP9/0-0.15	SP10/0-0.15
				Client sampling date / time	20-Aug-2015 09:20	20-Aug-2015 09:50	20-Aug-2015 09:30	20-Aug-2015 09:15	20-Aug-2015 10:15
Compound	CAS Number	LOR	Unit		EM1513549-006	EM1513549-007	EM1513549-008	EM1513549-009	EM1513549-010
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	**0.16**	**0.07**	**0.11**	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	**0.08**	**0.05**	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	----	<0.20	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	**0.16**	**0.07**	**0.11**	<0.05
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg		<0.05	**0.08**	**0.05**	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		**0.05**	<0.05	<0.05	**0.07**	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP6/0-0.15	SP7/0-0.15	SP8/0-0.15	SP9/0-0.15	SP10/0-0.15
				Client sampling date / time	20-Aug-2015 09:20	20-Aug-2015 09:50	20-Aug-2015 09:30	20-Aug-2015 09:15	20-Aug-2015 10:15
Compound	CAS Number	LOR	Unit		EM1513549-006	EM1513549-007	EM1513549-008	EM1513549-009	EM1513549-010
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	----	<0.05	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	----	<0.05	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	<0.5	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	<0.5	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	<0.5	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	----	<1	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	<0.5	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	<0.5	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	<0.5	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	<0.5	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	<0.5	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	<0.5	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	<0.5	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	----	<2	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	----	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		----	----	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	----	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		----	----	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	----	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		----	----	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP6/0-0.15	SP7/0-0.15	SP8/0-0.15	SP9/0-0.15	SP10/0-0.15
				Client sampling date / time	20-Aug-2015 09:20	20-Aug-2015 09:50	20-Aug-2015 09:30	20-Aug-2015 09:15	20-Aug-2015 10:15
Compound	CAS Number	LOR	Unit		EM1513549-006	EM1513549-007	EM1513549-008	EM1513549-009	EM1513549-010
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	----	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		----	----	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		----	----	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		----	----	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	----	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	----	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	----	<10	----	----
>C10 - C16 Fraction	>C10_C16	50	mg/kg		----	----	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		----	----	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		----	----	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	----	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	----	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	----	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		----	----	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	----	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	----	<0.2	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	----	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		----	----	<1	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	**98.5**	----	----
EP068S: Organochlorine Pesticide Surrogate									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP6/0-0.15	SP7/0-0.15	SP8/0-0.15	SP9/0-0.15	SP10/0-0.15
				Client sampling date / time	20-Aug-2015 09:20	20-Aug-2015 09:50	20-Aug-2015 09:30	20-Aug-2015 09:15	20-Aug-2015 10:15
Compound	CAS Number	LOR	Unit		EM1513549-006	EM1513549-007	EM1513549-008	EM1513549-009	EM1513549-010
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%		81.6	87.7	81.2	80.8	56.3
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		59.6	95.7	75.4	85.3	68.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	----	76.6	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	98.6	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	60.6	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	91.0	----	----
Anthracene-d10	1719-06-8	0.5	%		----	----	109	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	94.0	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	----	113	----	----
Toluene-D8	2037-26-5	0.2	%		----	----	98.5	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	----	77.8	----	----

ALS Environmental

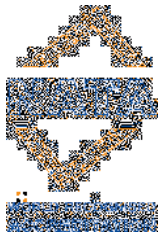
QUALITY CONTROL REPORT

Work Order	: **EM1513549**	Page	: 1 of 13
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 20-Aug-2015
C-O-C number	: ----	Date Analysis Commenced	: 21-Aug-2015
Sampler	: ANDREW WIGLEY	Issue Date	: 25-Aug-2015
Site	: ----	No. of samples received	: 12
Quote number	: ----	No. of samples analysed	: 10

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

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



NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics
Xing Lin	Senior Organic Chemist	Melbourne Organics

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 (QC Lot: 189987)									
EM1513538-002	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	14.4	14.5	0.00	0% - 50%
EM1513547-005	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	14.3	14.1	1.32	0% - 50%
EA055: Moisture Content (QC Lot: 189988)									
EM1513549-004	SP4/0-0.15	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	12.0	11.8	1.66	0% - 50%
EM1513554-004	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	8.7	8.5	2.48	No Limit
EG005T: Total Metals by ICP-AES (QC Lot: 189782)									
EM1513549-001	SP1/0-0.15	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	<10	<10	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	4	0.00	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Nickel	7440-02-0	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	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	5	5	0.00	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	14	13	0.00	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	11	11	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.00	No Limit
EM1513549-010	SP10/0-0.15	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	10	30	81.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	18	21	11.6	0% - 50%
		EG005T: Cobalt	7440-48-4	2	mg/kg	2	2	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	6	7	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	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	<5	7	33.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	20	22	6.09	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.00	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 189783)									

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 (%)*
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 189783) - continued									
EM1513549-001	SP1/0-0.15	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EM1513549-010	SP10/0-0.15	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 190952)									
EM1513549-002	SP2/0-0.15	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QC Lot: 190445)									
EM1513549-002	SP2/0-0.15	EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	1	1	0.00	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 189775)									
EM1513549-002	SP2/0-0.15	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 189774)									
EM1513554-018	Anonymous	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EM1513549-002	SP2/0-0.15	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit

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 (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 189774) - continued									
EM1513549-002	SP2/0-0.15	EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Mirex	2385-85-5	0.05	mg/kg	<0.20	<0.20	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 189774)									
EM1513554-018	Anonymous	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EM1513549-002	SP2/0-0.15	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	0.06	0.06	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit

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 (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 189774) - continued									
EM1513549-002	SP2/0-0.15	EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP068C: Triazines (QC Lot: 189774)									
EM1513554-018	Anonymous	EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EM1513549-002	SP2/0-0.15	EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EP068D: Pyrethroids (QC Lot: 189774)									
EM1513554-018	Anonymous	EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EM1513549-002	SP2/0-0.15	EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 189772)									
EM1513549-002	SP2/0-0.15	EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.00	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 189772)									
EM1513549-002	SP2/0-0.15	EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

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 (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 189772) - continued									
EM1513549-002	SP2/0-0.15	EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 189771)									
EM1513549-002	SP2/0-0.15	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 189773)									
EM1513549-002	SP2/0-0.15	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 189771)									
EM1513549-002	SP2/0-0.15	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 189773)									
EM1513549-002	SP2/0-0.15	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50	0.00	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080: BTEXN (QC Lot: 189771)									
EM1513549-002	SP2/0-0.15	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	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 Sample (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: 189782)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	92.6	79	113
EG005T: Barium	7440-39-3	10	mg/kg	<10	143 mg/kg	104	92	116
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	5.63 mg/kg	103	77	125
EG005T: Boron	7440-42-8	50	mg/kg	<50	33.2 mg/kg	98.0	84	124
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	94.8	87	115
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	90.9	89	113
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	16 mg/kg	89.9	81	117
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	93.1	90	116
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	85.3	85	107
EG005T: Manganese	7439-96-5	5	mg/kg	<5	130 mg/kg	93.7	87	113
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	90.3	89	111
EG005T: Selenium	7782-49-2	5	mg/kg	<5	5.37 mg/kg	101	93	109
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	29.6 mg/kg	90.4	81	117
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	95.4	89	111
EG035T: Total Recoverable Mercury by FIMS (QCLot: 189783)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	90.6	85	103
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 190952)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	40 mg/kg	83.5	80	120
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 190445)								
EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	20 mg/kg	96.8	86	118
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 189775)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	113	55	135
EP068A: Organochlorine Pesticides (OC) (QCLot: 189774)								
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	73.0	50	134
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	67.5	51	131
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	81.1	38	140
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	73.6	52	128
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	81.6	45	133
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	62.6	57	135
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	46	134
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	70.0	52	132
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	64.9	51	131
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	52	128
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	73.3	51	131

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 189774) - continued								
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	79.6	50	132
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	67.9	41	141
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	78.1	38	130
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	85.2	52	132
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	85.9	49	133
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	75.2	48	128
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	66.6	52	130
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	92.9	43	133
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	81.5	41	141
EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.1	58	138
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	78.2	51	131
EP068B: Organophosphorus Pesticides (OP) (QCLot: 189774)								
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	50.8	14	162
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	65.0	53	131
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	51	133
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	66.3	50	134
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	72.5	54	135
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	107	53	131
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	108	41	141
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	53	131
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	83.5	34	134
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	90.3	43	139
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	66.9	51	133
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	66.4	46	138
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	84.8	51	131
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	75.2	51	133
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	84.7	10	184
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	71.2	51	135
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	73.2	49	133
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	66.1	51	133
EP068C: Triazines (QCLot: 189774)								
EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	54	138
EP068D: Pyrethroids (QCLot: 189774)								
EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	0.5 mg/kg	88.7	54	132
EP075(SIM)A: Phenolic Compounds (QCLot: 189772)								
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	3 mg/kg	108	57	119
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	3 mg/kg	107	54	120
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	3 mg/kg	104	61	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)A: Phenolic Compounds (QCLot: 189772) - continued								
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	3 mg/kg	104	66	114
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	3 mg/kg	104	65	117
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	3 mg/kg	103	67	113
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	3 mg/kg	103	66	114
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	3 mg/kg	103	56	116
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	6 mg/kg	108	62	122
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	3 mg/kg	104	57	119
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	6 mg/kg	56.7	16	124
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	3 mg/kg	106	65	113
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 189772)								
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	109	68	114
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	109	61	125
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	101	68	116
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	104	62	116
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	105	64	114
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	113	64	114
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	103	59	117
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	99.9	67	115
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	106	63	119
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	102	62	114
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	103	67	115
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	104	62	120
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	105	62	116
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	104	65	119
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	108	69	113
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	107	66	116
EP080/071: Total Petroleum Hydrocarbons (QCLot: 189771)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	99.5	66	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 189773)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	658 mg/kg	112	65	131
EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	3160 mg/kg	111	70	126
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1448 mg/kg	109	70	122
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 189771)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	97.0	64	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 189773)								
EP071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	1051 mg/kg	116	68	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 189773) - continued								
EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	4124 mg/kg	109	72	116
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	161 mg/kg	88.2	38	132
EP080: BTEXN (QCLot: 189771)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	107	74	124
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	95.2	72	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	96.0	72	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	97.5	66	132
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	98.7	76	130
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	105	75	129

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**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005T: Total Metals by ICP-AES (QCLot: 189782)							
EM1513549-002	SP2/0-0.15	EG005T: Arsenic	7440-38-2	50 mg/kg	107	78	124
		EG005T: Barium	7440-39-3	50 mg/kg	107	71	135
		EG005T: Beryllium	7440-41-7	50 mg/kg	114	85	125
		EG005T: Cadmium	7440-43-9	50 mg/kg	104	84	116
		EG005T: Chromium	7440-47-3	50 mg/kg	104	79	121
		EG005T: Copper	7440-50-8	50 mg/kg	106	82	124
		EG005T: Lead	7439-92-1	50 mg/kg	102	76	124
		EG005T: Manganese	7439-96-5	50 mg/kg	112	68	136
		EG005T: Nickel	7440-02-0	50 mg/kg	99.1	78	120
		EG005T: Selenium	7782-49-2	50 mg/kg	99.7	71	125
		EG005T: Vanadium	7440-62-2	50 mg/kg	96.7	76	124
		EG005T: Zinc	7440-66-6	50 mg/kg	105	74	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 189783)							
EM1513549-002	SP2/0-0.15	EG035T: Mercury	7439-97-6	5 mg/kg	95.2	76	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 190952)							
EM1513555-004	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	40 mg/kg	73.5	58	114
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 190445)							
EM1513549-008	SP8/0-0.15	EK028SF: Weak Acid Dissociable Cyanide	----	20 mg/kg	83.5	70	130

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
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 189775)							
EM1513549-008	SP8/0-0.15	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	106	44	144
EP068A: Organochlorine Pesticides (OC) (QCLot: 189774)							
EM1513549-001	SP1/0-0.15	EP068: 4.4`-DDT	50-29-3	0.5 mg/kg	64.8	20	133
		EP068: Aldrin	309-00-2	0.5 mg/kg	104	23	136
		EP068: Dieldrin	60-57-1	0.5 mg/kg	66.4	42	136
		EP068: Endrin	72-20-8	0.5 mg/kg	75.7	23	146
		EP068: gamma-BHC	58-89-9	0.5 mg/kg	114	22	139
		EP068: Heptachlor	76-44-8	0.5 mg/kg	88.8	18	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 189774)							
EM1513549-001	SP1/0-0.15	EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	66.0	45	133
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	86.7	41	127
		EP068: Diazinon	333-41-5	0.5 mg/kg	104	49	135
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	96.8	47	133
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	79.6	40	128
EP075(SIM)A: Phenolic Compounds (QCLot: 189772)							
EM1513549-002	SP2/0-0.15	EP075(SIM): 2-Chlorophenol	95-57-8	3 mg/kg	103	65	123
		EP075(SIM): 2-Nitrophenol	88-75-5	3 mg/kg	90.8	40	134
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	92.4	56	122
		EP075(SIM): Pentachlorophenol	87-86-5	3 mg/kg	71.8	15	139
		EP075(SIM): Phenol	108-95-2	3 mg/kg	107	63	117
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 189772)							
EM1513549-002	SP2/0-0.15	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	108	67	117
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	117	52	148
EP080/071: Total Petroleum Hydrocarbons (QCLot: 189771)							
EM1513549-008	SP8/0-0.15	EP080: C6 - C9 Fraction	----	28 mg/kg	97.3	42	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 189773)							
EM1513549-008	SP8/0-0.15	EP071: C10 - C14 Fraction	----	658 mg/kg	# 113	53	123
		EP071: C15 - C28 Fraction	----	3160 mg/kg	113	70	124
		EP071: C29 - C36 Fraction	----	1448 mg/kg	# 111	64	118
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 189771)							
EM1513549-008	SP8/0-0.15	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	89.9	39	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 189773)							
EM1513549-008	SP8/0-0.15	EP071: >C10 - C16 Fraction	>C10_C16	1051 mg/kg	112	65	123
		EP071: >C16 - C34 Fraction	----	4124 mg/kg	# 113	67	121
		EP071: >C34 - C40 Fraction	----	161 mg/kg	# 120	44	126
EP080: BTEXN (QCLot: 189771)							

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*
EP080: BTEXN (QCLot: 189771) - continued							
EM1513549-008	SP8/0-0.15	EP080: Benzene	71-43-2	2 mg/kg	100	50	136
		EP080: Toluene	108-88-3	2 mg/kg	107	56	139

ALS Environmental

QA/QC Compliance Assessment for DQO Reporting

Work Order	: **EM1513549**	Page	: 1 of 7
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Telephone	: +61-3-8549 9608
Project	: LEOPOLD	Date Samples Received	: 20-Aug-2015
Site	: ----	Issue Date	: 25-Aug-2015
Sampler	: ANDREW WIGLEY	No. of samples received	: 12
Order number	: ----	No. of samples analysed	: 10

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

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								
Soil Glass Jar - Unpreserved (EA055-103)								
SP1/0-0.15,	SP2/0-0.15,	**20-Aug-2015**	**----**	----	----	**21-Aug-2015**	03-Sep-2015	✓
SP3/0-0.15,	SP4/0-0.15,							
SP5/0-0.15,	SP6/0-0.15,							
SP7/0-0.15,	SP8/0-0.15,							
SP9/0-0.15,	SP10/0-0.15							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
SP1/0-0.15,	SP2/0-0.15,	**20-Aug-2015**	**21-Aug-2015**	16-Feb-2016	✓	**21-Aug-2015**	16-Feb-2016	✓
SP3/0-0.15,	SP4/0-0.15,							
SP5/0-0.15,	SP6/0-0.15,							
SP7/0-0.15,	SP8/0-0.15,							
SP9/0-0.15,	SP10/0-0.15							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
SP1/0-0.15,	SP2/0-0.15,	**20-Aug-2015**	**21-Aug-2015**	17-Sep-2015	✓	**24-Aug-2015**	17-Sep-2015	✓
SP3/0-0.15,	SP4/0-0.15,							
SP5/0-0.15,	SP6/0-0.15,							
SP7/0-0.15,	SP8/0-0.15,							
SP9/0-0.15,	SP10/0-0.15							
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G)								
SP2/0-0.15,	SP8/0-0.15	**20-Aug-2015**	**24-Aug-2015**	17-Sep-2015	✓	**24-Aug-2015**	31-Aug-2015	✓
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK028SF)								
SP2/0-0.15,	SP8/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**24-Aug-2015**	04-Sep-2015	✓
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066)								
SP2/0-0.15,	SP8/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**24-Aug-2015**	30-Sep-2015	✓

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
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
SP1/0-0.15, SP2/0-0.15, SP3/0-0.15, SP4/0-0.15, SP5/0-0.15, SP6/0-0.15, SP7/0-0.15, SP8/0-0.15, SP9/0-0.15, SP10/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**24-Aug-2015**	30-Sep-2015	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP071)							
SP2/0-0.15, SP8/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**21-Aug-2015**	30-Sep-2015	✓
EP075(SIM)T: PAH Surrogates							
Soil Glass Jar - Unpreserved (EP075(SIM))							
SP2/0-0.15, SP8/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**21-Aug-2015**	30-Sep-2015	✓
EP080S: TPH(V)/BTEX Surrogates							
Soil Glass Jar - Unpreserved (EP080)							
SP2/0-0.15, SP8/0-0.15	**20-Aug-2015**	**21-Aug-2015**	03-Sep-2015	✓	**21-Aug-2015**	03-Sep-2015	✓

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)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	**14.29**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Moisture Content	EA055-103	2	20	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	8	**12.50**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	2	17	**11.76**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	2	**50.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	20	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	2	**50.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	**14.29**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	**14.29**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	**14.29**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement

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*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	2	**50.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement

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	EA055-103	SOIL	In-house. A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 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)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060A. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
WAD Cyanide by Segmented Flow Analyser	EK028SF	SOIL	In house: Referenced to APHA 4500-CN-O. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Hydrogen cyanide is liberated from a slightly acidified (pH 4.5) and is dialysed. Tight cyanide complexes that would not be amenable to oxidation by chlorine are not converted. Iron cyanide complexes are precipitated with zinc acetate. Liberated HCN diffuses through a membrane into a stream of sodium hydroxide where it is carried as CN- The cyanide in caustic solution is buffered to pH 5.2 and further converted to cyanogen chloride by reaction with chloramine-T. Cyanogen chloride subsequently reacts with 4 ¿pyridine carboxylic and 1,3 - dimethylbarbituric acids to give a red colour complex. This colour is measured at 600 nm. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

Environmental Site Assessments

Attachment 3: Results Comparison Table

				BTEX								Cyanides	Halogenated Benzenes	Halogenated Phenols						Herbicides	Inorganics	Lead	Metals								
				Benzene	Ethylbenzene	Toluene	Total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	Cyanide (WAD)	Hexachlorobenzene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	Atrazine	Moisture	Lead	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.5	0.5	0.5	10	1	0.05	0.5	0.5	0.5	0.5	0.5	2	0.05	1	5	5	10	1	50	1	0.5	2	2
NEPM 2013 Table 1A(1) HILs Res A Soil													10						100	320		300	100		60	4500	20	100		100
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																											
SP1	0-0.15	20/08/2015	SP1/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	10.4	5	<5	-	-	-	<1	-	4	-
SP2	0-0.15	20/08/2015	SP2/0-0.15	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	12.1	<5	6	10	<1	<50	<1	<0.5	6	<2
SP3	0-0.15	20/08/2015	SP3/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	17.3	14	18	-	-	-	<1	-	22	-
SP4	0-0.15	20/08/2015	SP4/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	12	<5	<5	-	-	-	<1	-	4	-
SP5	0-0.15	20/08/2015	SP5/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	10.2	<5	<5	-	-	-	<1	-	3	-
SP6	0-0.15	20/08/2015	SP6/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	8.6	<5	<5	-	-	-	<1	-	2	-
SP7	0-0.15	20/08/2015	SP7/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	11.6	<5	<5	-	-	-	<1	-	3	-
SP8	0-0.15	20/08/2015	SP8/0-0.15	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	19.6	<5	<5	<10	<1	<50	<1	<0.5	4	<2
SP9	0-0.15	20/08/2015	SP9/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	21.9	<5	<5	-	-	-	<1	-	2	-
SP10	0-0.15	20/08/2015	SP10/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	17.5	<5	<5	-	-	-	<1	-	18	-

				s							Organochlorine Pesticides																									
				Copper	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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				5	5	0.1	2	5	5	5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2
NEPM 2013 Table 1A(1) HILs Res A Soil				6000	3800	40	400	200		7400				6		50						240		270				10				6		300
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																																	
SP1	0-0.15	20/08/2015	SP1/0-0.15	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP2	0-0.15	20/08/2015	SP2/0-0.15	<5	12	<0.1	<2	<5	20	5	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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	<0.2
SP3	0-0.15	20/08/2015	SP3/0-0.15	<5	-	<0.1	9	-	-	7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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	<0.2
SP4	0-0.15	20/08/2015	SP4/0-0.15	<5	-	<0.1	<2	-	-	<5	0.08	<0.05	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.08	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP5	0-0.15	20/08/2015	SP5/0-0.15	<5	-	<0.1	<2	-	-	6	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP6	0-0.15	20/08/2015	SP6/0-0.15	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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	<0.2
SP7	0-0.15	20/08/2015	SP7/0-0.15	<5	-	<0.1	<2	-	-	<5	0.08	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.08	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP8	0-0.15	20/08/2015	SP8/0-0.15	<5	20	<0.1	<2	<5	11	<5	0.05	<0.05	<0.05	0.07	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP9	0-0.15	20/08/2015	SP9/0-0.15	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
SP10	0-0.15	20/08/2015	SP10/0-0.15	<5	-	<0.1	6	-	-	<5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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	<0.2

				Organophosphorous Pesticides															PAH	PAH/Phenols																			
				Azinophos methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenthion	Malathion	Methyl parathion	Monocrotophos	Prothiofos	Benzo[b+j]fluoranthene	2,4-dimethylphenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.5	0.5	0.5	0.5	1	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 Res A Soil								160																														
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																																			
SP1	0-0.15	20/08/2015	SP1/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP2	0-0.15	20/08/2015	SP2/0-0.15	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<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
SP3	0-0.15	20/08/2015	SP3/0-0.15	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP4	0-0.15	20/08/2015	SP4/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP5	0-0.15	20/08/2015	SP5/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP6	0-0.15	20/08/2015	SP6/0-0.15	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP7	0-0.15	20/08/2015	SP7/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP8	0-0.15	20/08/2015	SP8/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<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
SP9	0-0.15	20/08/2015	SP9/0-0.15	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	20/08/2015	SP10/0-0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

									Pesticides						Polychlorinated Biphenyls	TPH												
				Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Pyrene	Bifenthrin	Demeton-S-methyl	Fenamiphos	Mirex	Parathion	Pirimphos-ethyl	PCBs (Sum of total)	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C6-C10
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.2	0.05	0.1	50	100	100	50	10	50	100	100	50	50	10
NEPM 2013 Table 1A(1) HILs Res A Soil						300		3000		600			10			1											
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																									
SP1	0-0.15	20/08/2015	SP1/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP2	0-0.15	20/08/2015	SP2/0-0.15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP3	0-0.15	20/08/2015	SP3/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP4	0-0.15	20/08/2015	SP4/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP5	0-0.15	20/08/2015	SP5/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP6	0-0.15	20/08/2015	SP6/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP7	0-0.15	20/08/2015	SP7/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP8	0-0.15	20/08/2015	SP8/0-0.15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP9	0-0.15	20/08/2015	SP9/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	20/08/2015	SP10/0-0.15	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Site Assessments

Attachment 4: Sample Points

Environmental
Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Legend

Sample Point

Aerial sourced from Google Maps

Designed:	A.Wigley	Revision:	2
Drawn:	A.Wigley	Date:	25.08.15
File:	Sample Locations.pdf		

N W E S

0 Metres 50

Title:	Sample Locations
Project:	TGM - Mollers Lane
Location:	42-90 Mollers Lane, Leopold
Client:	Mollers Lane Developments Pty Ltd c/o TGM

LIMITED DUE DILIGENCE REPORT

2-20, 22-30 Mollers Lane,
Leopold

Prepared for
TGM Group P/L

Environmental
Site Assessments

office@esagroup.com.au | 0433 747 187 | www.esagroup.com.au

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Environmental Site Assessments Pty Ltd
PO Box 3106
Waurn Ponds 3216
Phone: 0433 747 187

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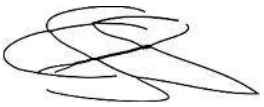
Client:	TGM Group P/L	
Signatures:	Prepared by: Andrew Wigley Senior Environmental Scientist	Authorised by:  Seton Lillas BSc *Waik.* MEIANZ Managing Director

Revision Status

Revision #	Status	Date	Writer	Reviewer
1	Final	15/10/2015	A. Wigley	S. Lillas

Documents Distribution

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1	1	Email	P.Preece	Director (Infrastructure) – TGM Group
1	1	Email	C.Marshall	Group Manager (Town Planning) – TGM Group

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Appendices

Appendix 1 – Field Forms

Appendix 2 – Chain of Custody Forms and Certificates of Analysis

Appendix 3 – Results Comparison Table

Appendix 4 – Sample Location Plan

1.0 BACKGROUND

Environmental Site Assessments ('ESA') was engaged by TGM Group ('the Client') to conduct a limited soil investigation on the subject site, which includes the properties located at 2-20 and 22-30 Mollers Lane, Leopold ('the Site').

The site is currently zoned as Farm Zone (FZ). The property at 2-20 Mollers Lane Leopold is currently a farm used for growing crops. The property at 22-30 Mollers Lane Leopold is currently a 'hobby farm' primarily used for residential purposes and horse grazing.

The client wishes to know whether the site is suitable for residential use based on the results of a limited soil investigation.

2.0 SCOPE OF WORKS

The following scope of works was approved by TGM Group to address this:

- Collect soil samples from ten (systematic grid based) locations and submit to a NATA accredited laboratory for analysis of the following contaminants of potential concern ('COPCs'):
  - 2 x NEPM (2013) Suite of Analytes
  - 8 x Organochlorine / Organophosphorus Pesticides
  - 8 x Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn)
- Collect soil samples from two (target) locations and submit to a NATA accredited laboratory for analysis of the following contaminants of potential concern ('COPCs'):
  - 2 x NEPM (2013) Suite of Analytes
- Production of a report comparing the analytical results with the NEPM guidelines[1] for residential use.

3.0 RESULTS OF ANALYSIS

Based on the results obtained from this sampling program, the soils investigated were found to be suitable for reuse in a conventional residential setting.

The following sections describe the guidelines, standards and investigation methods adopted for the soil sampling program.

4.0 SOIL SAMPLING PROGRAM

4.1 Relevant Guidelines and Standards

The sampling program was undertaken in accordance with the following guidelines, standards and policies:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- Australia Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999).
- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002

4.2 Quality Assurance / Quality Control

4.2.1 Environmental Site Assessments Quality Assurance (QA) Program

Environmental Site Assessments has developed and implemented a Quality Assurance Program in general accordance with the following guidelines:

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005).
- National Environment Protection Council ('NEPC') - National Environment Protection (Assessment of Site Contamination) Measure (NEPM) - Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils, 1999 (Amended 2013).

As part of the Quality Assurance Program, Environmental Site Assessments ensures that the following methodology is employed:

- The use of appropriately qualified and trained environmental scientists to perform intrusive works.
- The use of standardised field sheets to record the findings of the site investigations.

[1] National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)

- The collection and analysis of Quality Control samples as per AS 4482.1.
- The use of Chain of Custody procedures to ensure that sample integrity is maintained through the transport and handling stages.
- Only using NATA accredited laboratories for the analysis of samples collected during the investigation activities.

As per the Environmental Site Assessments Quality Assurance Program, the following data quality indicators were used for the assessment of the laboratory analytical data:

- All sample analysis to be conducted using NATA registered methods in accordance with NEPM 1999 (Amended 2013) guidelines.
- Laboratory method blank analysis required to be below the Limit of Reporting ('LOR').
- Surrogate compound concentrations required to be spiked at similar concentrations to the sample result.

4.2.2 Environmental Site Assessments Quality Control ('QC') Program

The overall precision of laboratory split samples and laboratory duplicates is generally assessed by their Relative Percentage Difference ('RPD').

The RPD of duplicated analyses were calculated and compared to the following criteria for acceptability. The acceptance criteria are listed in AS4482.1 (2005):

- Less than 30% for laboratory duplicates where the detection is less than 10 times the LOR
- Less than 20% for laboratory duplicates where the detection is greater than 10 times the LOR
- RPDs for control spike duplicates will be compared to an acceptable limit of 20%
- RPDs for matrix spike duplicates will be compared to an acceptable limit of 20%, and
- Percentage recoveries of control spikes and matrix spikes will be compared to an acceptable range of 70% – 130%. Where this range is exceeded, reference to the laboratories internal data quality objective limits will be made. In addition, percentage recoveries of surrogates will also be compared to the USEPA surrogate recovery limits.

4.2.3 Sample Documentation

All samples collected were labelled in a clear and precise way for proper identification in the field and for tracking in the laboratory.

The samples had identifiable and unique numbers. The sample labels contained the following information:

- Company name
- Name of sampler
- Sample ID
- Date/Time sample was collected.

Chain-of-custody forms were used to document sample collection and transport to laboratories for analysis. All sample transports for analysis were accompanied by a chain-of-custody form.

Forms were completed and sent with the samples for each laboratory and each transport. If multiple coolers were sent to a single laboratory on a single day, forms were completed and sent with the samples for each cooler.

The chain-of-custody forms identified the contents of each transport and maintained the custodial integrity of the samples. The coolers in which samples were stored were sealed with self-adhesive custody seals. All custody seals were signed. The chain of custody forms are attached to **Appendix 2**.

4.2.4 Packaging and Transport

All sample containers were placed in a plastic cooler. The following outlines the packaging procedures that were followed for samples:

- When ice was used, it was packed in zip-locked, double plastic bags. The drain plug of the cooler was sealed with fiberglass tape to prevent melting ice from leaking out of the cooler.
- The bottom of the cooler was lined with bubble wrap to prevent breakage during transport.
- All glass sample containers were enclosed in bubble wrap to prevent breakage.
- Where required, empty space in the cooler was filled with bubble wrap to prevent movement and breakage during transport.
- Ice used to cool samples was placed on top and around the samples to chill them to the correct temperature.
- Each cooler was securely taped shut with signed custody seals.

4.2.5 Field Notes

The following information was recorded during the collection of samples:

- Sample location and description
- Sampling area sketch showing sample location and measured distances (where required)
- Sampler's name(s)
- Date and time of sample collection
- Sample ID
- Type of soil/material encountered (Fill, Natural etc.)
- GPS Coordinates
- Photoionisation Detector ('PID') readings
- Field observations and details related to analysis or integrity of samples (e.g., weather conditions, noticeable odours, colours etc.)
- Soil descriptions as per AS1726-1993
- Sample preservation details.

4.3 Analytical Results

This sampling program was undertaken on site on 8 October 2015. A hand auger and gloved hand were used to collect samples from twelve sample points across the site (See **Appendix 4**).

Ten sample points (SP1 – SP10) were placed in a systematic grid based pattern across the site. Two other sample points (SP11 – SP12) targeted a backfilled former farm dam and earth mounds each potentially containing imported fill or waste material.

Table 4.3 illustrates the samples that were collected for analysis.

Sample ID	Sampling Point	Depth of Sample (m BGL)	Lab Analysis	PID (PPM)/Odour	Visual Contamination
SP01/0-0.15	SP01	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP02/0-0.15	SP02	0-0.15	NEPM Suite*	0.0/Nil	Nil
SP03/0-0.15	SP03	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP04/0-0.15	SP04	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP05/0-0.15	SP05	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP06/0-0.15	SP06	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP07/0-0.15	SP07	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP08/0-0.15	SP08	0-0.15	OC/OP, 8 Metals	0.0/Nil	Nil
SP09/0-0.15	SP09	0-0.15	OC/OP, 8 Metals	0.2/Nil	Nil
SP10/0-0.15	SP10	0-0.15	NEPM Suite*	0.0/Nil	Nil
SP11/0-0.15	SP11	0.35-0.5	NEPM Suite*	0.0/Nil	Nil
SP12/0-0.15	SP12	0.35-0.5	NEPM Suite*	0.1/Nil	Nil

* = 15 Metals including As, Ba, Be, B, Cd, Cr, Co, Cu, Hg, Mn, Ni, Pb, Se V, Zn, TRH (C6-C36 or 40) / BTEXN, PAH/Phenols (16 PAHs & 12 Phenols), OC/OP Pesticides Including Triazine, Pesticides (Atrazine) and Bifenthrin, PCB, Cyanide – WAD, Chromium – Hexavalent (Alkaline Leach)

4.3.1 Photoionisation Calibration

The photoionisation detector ('PID') was calibrated prior to sample collection. The PID calibration sheet is attached to **Appendix 1**. All samples were analysed using the PID and the results are shown in Table 4.3.

4.3.2 Results of Analysis

Australian Laboratory Services Pty Ltd ('ALS') was used for conducting the soil analysis. ALS are NATA certified for the analysis undertaken.

All chain of custody forms, certificates of analysis and laboratory QA/QC documents are in **Appendix 2.** The comparison tables for laboratory results are attached in **Appendix 3**.

The laboratory results were compared with:

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013), Health Investigation Levels - Residential A ('HIL A').

The results were as follows:

- All results were below the upper thresholds of HIL A for low density residential use.
- No comparison was required against HSLs, ESLs or Management Limits based on the results.

4.3.3 Laboratory QA/QC

As part of their NATA accreditation, ALS perform internal duplicate analysis of samples for comparison of results to demonstrate precision. Laboratory standards including matrix spike samples, laboratory control samples and surrogates are also conducted as a basis to demonstrate accuracy. In addition, internal laboratory blank samples are run to assess the potential for laboratory equipment errors. The laboratory QA/QC results are attached in **Appendix 2.**

4.3.3.1 ALS Environmental Laboratory

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Two Matrix Spike outliers occurred for Manganese and Pyrene.
- No Laboratory Control outliers occur.
- No Surrogate Recovery outliers occur.

4.3.3.2 Sample Holding Times and Sample Receipt Temperature

Sample holding times were within acceptable ranges from collection to extraction. The documented temperature of samples upon receipt at the respective laboratory was within an acceptable range.

4.3.3.3 Conclusion

A review of the laboratory reports indicates that ALS has met their internal acceptance criteria for the quality control samples.

5.0 CONCLUSIONS

All of the soil samples analysed were suitable for use in a conventional residential setting in line with ASC NEPM (1999, Amended) guidelines.

As such, it is believed that based on the results of this investigation the site is suitable for its intended use as a residential property.

6.0 REFERENCES

- Australia Standard (AS 4482.1) - Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile compounds (Standards Australia, 2005)
- Australia Standard (AS 4482.2) - Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances (Standards Australia, 1999)
- Australian Standard (AS 1726 -1993) – Geotechnical Site Investigations (Standards Australia, 1993)
- National Environment Protection (Assessment of Site Contamination) Measure 1999 (Amended 2013)
- State Environment Protection Policy (Prevention and Management of Contamination of Land) No. S95, EPA Victoria, June 2002
- Environment Protection Act 1970, Victoria. Act No 8056/1970
- Industrial Waste Resource Guidelines (IWRG): Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication IWRG701, EPA Victoria, June 2009
- Industrial Waste Resource Guidelines (IWRG): Soil Sampling, Publication IWRG702, EPA Victoria, June 2009

DISCLAIMER

This disclaimer, together with any limitations specified in the report, applies to use of this report.

This report was prepared in accordance with a contracted scope of services. There were a series of cost, time and other constraints, which have affected the accuracy, and completeness of investigations undertaken.

This report has been prepared solely for use by, and is confidential to; the client who contracted the scope of services and Environmental Site Assessments accepts no responsibility for its use by other persons.

The contract for the preparation of this report contains express limitations upon the liability of Environmental Site Assessments, which should be considered carefully. This report is subject to copyright protection and the copyright owner reserves its rights. This report does not constitute legal advice.

This report must be read in conjunction with the Statement of Qualifications and Limitations contained within it.

STATEMENT OF QUALIFICATIONS AND LIMITATIONS

It is not possible to identify all contamination or potential contaminants in or under the surface of the site. This is an intrinsic risk when investigating potentially and contaminated sites. As such, Environmental Site Assessments has prepared the following information, which details the limitations of this environmental report.

In preparing this report, Environmental Site Assessments has relied on client/ third party information, which was not verified by Environmental Site Assessments, and Environmental Site Assessments does not accept responsibility for omissions or inaccuracies in the client/ third party information.

This report is based solely on the specific instructions received from its client and/or the scope of works agreed between Environmental Site Assessments and its client. Those instructions and/or scope of work may not be fully described in this report.

This report is based on the site conditions identified at the time of inspection. It is not possible to identify all contamination or potential contaminants in or under the surface of the site.

Investigations undertaken in respect of this report may have been constrained by the particular site conditions, such as the location of buildings, services and vegetation. Further, changes that may have occurred after inspection.

As a result of these matters, not all relevant site history, contaminants or potential for contamination may have been identified in this report.

No warranties express or implied, as to the accuracy or completeness of the matters contained within it are made.

Although normal standards of professional practice have been applied, the absence of any identified potential for air, soil or groundwater impacts on the subject property should not be interpreted as a conclusion that impacts do not exist on the site.

Subsurface conditions can vary across a particular site, which cannot be wholly defined by investigation.

As a result, it is unlikely that the results and estimations presented in this report will reflect the extremes of conditions within the site. Subsurface conditions including impact concentrations can change in a limited period of time. Any information provided may be based on "spot" tests. Conditions may vary between or beyond those locations from the interpreted conditions based on the actual data.

The analyses, evaluations, opinions and conclusions presented in this report are based on the information provided, and they could change if the information is in fact found to be unrepresentative of conditions between sampling and analysis locations.

The assessment and remediation of contamination is a developing science. Clean Up technology is constantly changing as scientific information on data collection, risk assessment, toxicology and remediation technologies are published. Further, opinions can vary as to the criterion for whether particular conditions constitute contamination, and if so how that contamination should be addressed or remediated. Different persons might reasonably or otherwise form opinions different to those of Environmental Site Assessments.

Use of the site for any purpose may require planning and other approvals and, in some cases, EPA and accredited site auditor approvals. Environmental Site Assessments offers no opinion as to the likelihood of obtaining any such approvals, or the conditions and obligations, which such approvals may impose, which may include the requirement for significant environment works.

The ongoing use of the site or use of the site for a different purpose may require the owner/ user to manage and/ or remediate site conditions, such as contamination and other conditions, including but not limited to conditions referred to in this report.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works or demolition works unless used in conjunction with a specification detailing the extent of the works.

To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

Environmental Site Assessments makes no determination or recommendation regarding a decision whether to acquire or provide financing with respect to the site.

Environmental Site Assessments

Appendix 1: Field Forms

SOIL SAMPLE FORM

Environmental Site Assessments

Date:	8/10/15	**Site Address:**	2-30 MOLLERS LANE, LEOPOLD
Project Manager:	ANDREW WICKLEY	**Other Staff:**	—
Site Description:	RURAL PROPERTY; HOUSE, PADDOCK, SHED		
Weather Conditions:	FINE		
Rationale for any judgmental sampling:	2 ADDITIONAL TARGET LOCATIONS SP11 – Former Dam, Backfilled SP12 – Earth wall, FILL Material } Potentially imported fill		
Container type:	125mL GLASS JAR		
Sample storage and preservation conditions:	ESKIE WITH ICE		
Notes:			

SOIL SAMPLE FORM

Environmental Site Assessments

Sample ID	Date/Time Collected	Sampler Name	GPS Coordinates	Depth of Sample	Soil Type (e.g. fill or natural soil)	Odour/PID	Visual Contamination
SP1/0-0.15	8/10/15 9:55	AJ	refer to bore log	0-0.15	NAT.	Nil/0.0	Nil
SP2/0-0.15	" 10:00	"	"	"	NAT.	" /0.0	"
SP3/0-0.15	" 10:05	"	"	"	NAT.	" /0.0	"
SP4/0-0.15	" 9:30	"	"	"	NAT.	" /0.0	"
SP5/0-0.15	" 9:35	"	"	"	NAT.	" /0.0	"
SP6/0-0.15	" 9:40	"	"	"	NAT.	" /0.0	"
SP7/0-0.15	" 10:30	"	"	"	NAT.	" /0.0	"
SP8/0-0.15	" 10:40	"	"	"	NAT.	" /0.0	"
SP9/0-0.15	" 10:20	"	"	"	FILL	" /0.2	"
SP10/0-0.15	" 10:50	"	"	"	FILL	" /0.0	"
SP11/0.35-0.5	" 11:00	"	"	0.35-0.5	FILL	" /0.0	"
SP12/0.35-0.5	" 11:15	"	"	0.35-0.5	FILL	" /0.1	"

Environmental Site Assessments

PID Calibration Record

Project Name	LEOPOLD	Calibrated By	AW
Project Address	2-30 MOLLERS LANE, LEOPOLD	Date	8/10/15

Sensor	Type	Serial Number	Span Gas	Concentration	Reading	
					Zero	Span
PID	10.6ev	1062P83010	Isobutylene	100ppm	0	100
PID	10.6ev	1062R919002	Isobutylene	100ppm	—	—

Environmental Site Assessments

Appendix 2: Chain of Custody Forms and Certificates of Analysis

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS

CLIENT: ENVIRONMENTAL SITE ASSESSMENTS

OFFICE: PO BOX 3106, WAURN PONDS VIC 3216

PROJECT: ~~2-30 Mellors Lane~~, Leopold

PROJECT MANAGER: Seton Lilas CONTACT PH: 0433 747 1878

SAMPLER: Andrew Wigley SAMPLER MOBILE: 0439 135 516

Email Reports to: ~~office@esagroup.com.au~~ andrew@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: —

TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):

☐ Non Standard or urgent TAT (List due date):

QUOTE NO.: —

COC SEQUENCE NUMBER (Circle)

COC: (1) 2 3 4 5 6 7

OF: (1) 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Ice / frozen ice bricks present? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
AW			RAWu (AW)
DATE/TIME: 8/10/15	DATE/TIME:	DATE/TIME:	DATE/TIME: 8/10, 17:00

Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1	S-12	S-2						
1	SP01/0-0.15	8/10/15	S	125 mL Glass Jar	1		X	X						
2	SP02/0-0.15	"	S	"	1	X								
3	SP03/0-0.15	"	S	"	1		X	X						
4	SP04/0-0.15	"	S	"	1		X	X						
5	SP05/0-0.15	"	S	"	1		X	X						
6	SP06/0-0.15	"	S	"	1		X	X						
7	SP07/0-0.15	"	S	"	1		X	X						
8	SP08/0-0.15	"	S	"	1		X	X						
9	SP09/0-0.15	"	S	"	1		X	X						
10	SP10/0-0.15	"	S	"	1	X								
11	SP11/0.35-0.5	"	S	"	1	X								
12	SP12/0.35-0.5	"	S	"	1	X								
				TOTAL	12	4	8	8						

Environmental Division Melbourne

Work Order Reference

EM1515544

Telephone : +61-3-8549 9600

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: **EM1515544**		
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	Page	: 1 of 2
Order number	: ----	Quote number	: EM2015ENVSITASS0064 (MEBQ/159/15)
C-O-C number	: ----	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Site	: ----		
Sampler	: ANDREW WIGLEY		

Dates

Date Samples Received	: 08-Oct-2015 5:00 PM	Issue Date	: 09-Oct-2015
Client Requested Due Date	: 15-Oct-2015	Scheduled Reporting Date	: **15-Oct-2015**

Delivery Details

Mode of Delivery	: Undefined	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 5.3°C - Ice present
Receipt Detail	:	No. of samples received / analysed	: 12 / 12

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.
- **Analytical work for this work order will be conducted at ALS Springvale.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exist.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA055-103 Moisture Content	SOIL - P-21/1 (Melb) NEPM (2013) HIL Table 1A(1) Screen	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-12 OC/OP Pesticides
EM1515544-001	[08-Oct-2015]	SP01/0-0.15	✓		✓	✓
EM1515544-002	[08-Oct-2015]	SP02/0-0.15	✓	✓		
EM1515544-003	[08-Oct-2015]	SP03/0-0.15	✓		✓	✓
EM1515544-004	[08-Oct-2015]	SP04/0-0.15	✓		✓	✓
EM1515544-005	[08-Oct-2015]	SP05/0-0.15	✓		✓	✓
EM1515544-006	[08-Oct-2015]	SP06/0-0.15	✓		✓	✓
EM1515544-007	[08-Oct-2015]	SP07/0-0.15	✓		✓	✓
EM1515544-008	[08-Oct-2015]	SP08/0-0.15	✓		✓	✓
EM1515544-009	[08-Oct-2015]	SP09/0-0.15	✓		✓	✓
EM1515544-010	[08-Oct-2015]	SP10/0-0.15	✓	✓		
EM1515544-011	[08-Oct-2015]	SP11/0.35-0.5	✓	✓		
EM1515544-012	[08-Oct-2015]	SP12/0.35-0.5	✓	✓		

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice (INV)	Email	accounts@envirositeassessments.com

ANDREW WIGLEY

- *AU Certificate of Analysis - NATA (COA)	Email	andrew@esagroup.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	andrew@esagroup.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	andrew@esagroup.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	andrew@esagroup.com.au
- AU IWRG 621 2009 Guideline Report (COA_GL_IWRG_621)	Email	andrew@esagroup.com.au
- Chain of Custody (CoC) (COC)	Email	andrew@esagroup.com.au
- EDI Format - ENMRG (ENMRG)	Email	andrew@esagroup.com.au
- EDI Format - ESDAT (ESDAT)	Email	andrew@esagroup.com.au
- EDI Format - EXCEL_GENERIC (EXCEL_GENERIC)	Email	andrew@esagroup.com.au

CERTIFICATE OF ANALYSIS

Work Order	: **EM1515544**	Page	: 1 of 17
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 08-Oct-2015 17:00
C-O-C number	: ----	Date Analysis Commenced	: 09-Oct-2015
Sampler	: ANDREW WIGLEY	Issue Date	: 13-Oct-2015 16:35
Site	: ----		
		No. of samples received	: 12
Quote number	: ----	No. of samples analysed	: 12

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics
Eric Chau	Metals Team Leader	Melbourne Inorganics
Xing Lin	Senior Organic Chemist	Melbourne Organics

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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP01/0-0.15	SP02/0-0.15	SP03/0-0.15	SP04/0-0.15	SP05/0-0.15
			Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit	EM1515544-001	EM1515544-002	EM1515544-003	EM1515544-004	EM1515544-005
				Result	Result	Result	Result	Result
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1	%	5.2	3.2	4.2	8.3	6.1
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	20	----	----	----
Beryllium	7440-41-7	1	mg/kg	----	<1	----	----	----
Boron	7440-42-8	50	mg/kg	----	<50	----	----	----
Cobalt	7440-48-4	2	mg/kg	----	2	----	----	----
Manganese	7439-96-5	5	mg/kg	----	26	----	----	----
Selenium	7782-49-2	5	mg/kg	----	<5	----	----	----
Vanadium	7440-62-2	5	mg/kg	----	72	----	----	----
Arsenic	7440-38-2	5	mg/kg	14	15	5	14	14
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	20	34	10	39	21
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	18	17	23	18	14
Nickel	7440-02-0	2	mg/kg	5	5	3	7	4
Zinc	7440-66-6	5	mg/kg	14	8	16	6	12
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP01/0-0.15	SP02/0-0.15	SP03/0-0.15	SP04/0-0.15	SP05/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-001	EM1515544-002	EM1515544-003	EM1515544-004	EM1515544-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		**0.44**	**0.08**	<0.05	**0.06**	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.44**	**0.08**	<0.05	**0.06**	<0.05
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP01/0-0.15	SP02/0-0.15	SP03/0-0.15	SP04/0-0.15	SP05/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-001	EM1515544-002	EM1515544-003	EM1515544-004	EM1515544-005
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP01/0-0.15	SP02/0-0.15	SP03/0-0.15	SP04/0-0.15	SP05/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-001	EM1515544-002	EM1515544-003	EM1515544-004	EM1515544-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	0.6	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	1.2	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	----	----
>C10 - C16 Fraction	>C10_C16	50	mg/kg		----	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		----	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	102	----	----	----
EP068S: Organochlorine Pesticide Surrogate									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP01/0-0.15	SP02/0-0.15	SP03/0-0.15	SP04/0-0.15	SP05/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-001	EM1515544-002	EM1515544-003	EM1515544-004	EM1515544-005
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%		86.6	86.6	88.9	87.8	94.7
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		73.8	72.4	72.8	95.6	92.4
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	92.4	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	97.4	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	69.1	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	101	----	----	----
Anthracene-d10	1719-06-8	0.5	%		----	112	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	108	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	89.4	----	----	----
Toluene-D8	2037-26-5	0.2	%		----	82.2	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	88.9	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP06/0-0.15	SP07/0-0.15	SP08/0-0.15	SP09/0-0.15	SP10/0-0.15
			Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit	EM1515544-006	EM1515544-007	EM1515544-008	EM1515544-009	EM1515544-010
				Result	Result	Result	Result	Result
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1	%	5.6	6.2	7.4	2.2	5.5
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	----	----	----	30
Beryllium	7440-41-7	1	mg/kg	----	----	----	----	<1
Boron	7440-42-8	50	mg/kg	----	----	----	----	<50
Cobalt	7440-48-4	2	mg/kg	----	----	----	----	3
Manganese	7439-96-5	5	mg/kg	----	----	----	----	101
Selenium	7782-49-2	5	mg/kg	----	----	----	----	<5
Vanadium	7440-62-2	5	mg/kg	----	----	----	----	37
Arsenic	7440-38-2	5	mg/kg	9	<5	5	<5	7
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	25	7	7	18	16
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	18	55	29	9	24
Nickel	7440-02-0	2	mg/kg	4	3	3	<2	7
Zinc	7440-66-6	5	mg/kg	24	44	88	10	42
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	----	----	<0.5
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	----	----	1
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP06/0-0.15	SP07/0-0.15	SP08/0-0.15	SP09/0-0.15	SP10/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-006	EM1515544-007	EM1515544-008	EM1515544-009	EM1515544-010
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		**0.06**	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	----	----	----	<0.20
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.06**	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP06/0-0.15	SP07/0-0.15	SP08/0-0.15	SP09/0-0.15	SP10/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-006	EM1515544-007	EM1515544-008	EM1515544-009	EM1515544-010
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	----	----	----	<0.05
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	----	----	----	<0.05
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	----	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	----	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	----	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	----	----	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	----	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	----	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	----	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	----	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	----	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	----	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	----	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg		----	----	----	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		----	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		----	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		----	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		----	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		----	----	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		----	----	----	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	----	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	----	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP06/0-0.15	SP07/0-0.15	SP08/0-0.15	SP09/0-0.15	SP10/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-006	EM1515544-007	EM1515544-008	EM1515544-009	EM1515544-010
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	----	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	----	----	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	----	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	----	----	----	<10
C10 - C14 Fraction	----	50	mg/kg		----	----	----	----	<50
C15 - C28 Fraction	----	100	mg/kg		----	----	----	----	<100
C29 - C36 Fraction	----	100	mg/kg		----	----	----	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	----	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	----	----	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	----	----	----	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg		----	----	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg		----	----	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg		----	----	----	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	----	----	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	----	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	----	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg		----	----	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		----	----	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	----	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		----	----	----	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		----	----	----	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	----	----	----	<0.5
Naphthalene	91-20-3	1	mg/kg		----	----	----	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	----	**98.9**
EP068S: Organochlorine Pesticide Surrogate									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP06/0-0.15	SP07/0-0.15	SP08/0-0.15	SP09/0-0.15	SP10/0-0.15
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]	[08-Oct-2015]
Compound	CAS Number	LOR	Unit		EM1515544-006	EM1515544-007	EM1515544-008	EM1515544-009	EM1515544-010
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%		84.8	88.8	85.4	82.9	95.0
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		92.5	96.5	72.9	68.2	71.8
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	----	----	----	90.6
2-Chlorophenol-D4	93951-73-6	0.5	%		----	----	----	----	93.1
2.4.6-Tribromophenol	118-79-6	0.5	%		----	----	----	----	66.3
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	----	----	----	82.9
Anthracene-d10	1719-06-8	0.5	%		----	----	----	----	109
4-Terphenyl-d14	1718-51-0	0.5	%		----	----	----	----	104
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	----	----	----	89.5
Toluene-D8	2037-26-5	0.2	%		----	----	----	----	80.9
4-Bromofluorobenzene	460-00-4	0.2	%		----	----	----	----	84.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP11/0.35-0.5	SP12/0.35-0.5	----	----	----
			Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	----	----	----
Compound	CAS Number	LOR	Unit	EM1515544-011	EM1515544-012	--------	--------	--------
				Result	Result	Result	Result	Result
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1	%	**11.4**	**3.2**	----	----	----
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	**30**	<10	----	----	----
Beryllium	7440-41-7	1	mg/kg	<1	<1	----	----	----
Boron	7440-42-8	50	mg/kg	<50	<50	----	----	----
Cobalt	7440-48-4	2	mg/kg	<2	<2	----	----	----
Manganese	7439-96-5	5	mg/kg	**93**	**73**	----	----	----
Selenium	7782-49-2	5	mg/kg	<5	<5	----	----	----
Vanadium	7440-62-2	5	mg/kg	**17**	**15**	----	----	----
Arsenic	7440-38-2	5	mg/kg	**5**	<5	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg	**9**	**10**	----	----	----
Copper	7440-50-8	5	mg/kg	**5**	<5	----	----	----
Lead	7439-92-1	5	mg/kg	**54**	<5	----	----	----
Nickel	7440-02-0	2	mg/kg	**7**	**3**	----	----	----
Zinc	7440-66-6	5	mg/kg	**510**	**9**	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	**1**	<1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP11/0.35-0.5	SP12/0.35-0.5	----	----	----
			Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	----	----	----
Compound	CAS Number	LOR	Unit	EM1515544-011	EM1515544-012	--------	--------	--------
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	----	----	----
Mirex	2385-85-5	0.2	mg/kg	<0.20	<0.20	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.05	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	SP11/0.35-0.5	SP12/0.35-0.5	----	----	----
			Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	----	----	----
Compound	CAS Number	LOR	Unit	EM1515544-011	EM1515544-012	--------	--------	--------
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	----	----	----
EP068C: Triazines								
Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	----	----	----
EP068D: Pyrethroids								
Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	----	----	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP11/0.35-0.5	SP12/0.35-0.5	----	----	----
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	----	----	----
Compound	CAS Number	LOR	Unit		EM1515544-011	EM1515544-012	--------	--------	--------
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	----
>C10 - C16 Fraction	>C10_C16	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**101**	**104**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	SP11/0.35-0.5	SP12/0.35-0.5	----	----	----
				Client sampling date / time	[08-Oct-2015]	[08-Oct-2015]	----	----	----
Compound	CAS Number	LOR	Unit		EM1515544-011	EM1515544-012	--------	--------	--------
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate - Continued									
Dibromo-DDE	21655-73-2	0.05	%		85.6	85.2	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		94.4	89.1	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		93.4	89.4	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		93.7	94.8	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		62.8	62.4	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		100	100	----	----	----
Anthracene-d10	1719-06-8	0.5	%		112	110	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		107	105	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		95.9	100	----	----	----
Toluene-D8	2037-26-5	0.2	%		76.0	80.9	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		82.6	90.1	----	----	----

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM1515544**	Page	: 1 of 14
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: seton@envirositeassessments.com	E-mail	: carol.walsh@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9608
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: LEOPOLD	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 08-Oct-2015
C-O-C number	: ----	Date Analysis Commenced	: 09-Oct-2015
Sampler	: ANDREW WIGLEY	Issue Date	: 13-Oct-2015
Site	: ----	No. of samples received	: 12
Quote number	: ----	No. of samples analysed	: 12

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

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

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics
Eric Chau	Metals Team Leader	Melbourne Inorganics
Xing Lin	Senior Organic Chemist	Melbourne Organics

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 (QC Lot: 237723)									
EM1515539-002	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	16.4	18.1	9.69	0% - 50%
EA055: Moisture Content (QC Lot: 237724)									
EM1515537-002	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	6.0	5.6	7.42	No Limit
EM1515544-004	SP04/0-0.15	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	8.3	9.0	7.79	No Limit
EG005T: Total Metals by ICP-AES (QC Lot: 237831)									
EM1515526-020	Anonymous	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	200	180	9.67	0% - 50%
		EG005T: Chromium	7440-47-3	2	mg/kg	19	16	14.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	10	10	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	10	10	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	8	8	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	10	13	24.3	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	75	85	12.3	0% - 50%
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	34	27	20.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	8	11	30.7	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.00	No Limit
EM1515544-003	SP03/0-0.15	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	20	20	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	15	46.1	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	3	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	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	23	22	0.00	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	26	24	9.07	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	25	29	16.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	16	15	10.6	No Limit
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.00	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 237832)									
EM1515526-020	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit

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 (%)*
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 237832) - continued									
EM1515544-003	SP03/0-0.15	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 237731)									
EM1515462-046	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EM1515537-018	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QC Lot: 238355)									
EM1515544-002	SP02/0-0.15	EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	<1	0.00	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 238115)									
EM1515484-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 238118)									
EM1515544-004	SP04/0-0.15	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	0.06	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EM1515484-001	Anonymous	EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit

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 (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 238118) - continued									
EM1515484-001	Anonymous	EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 238118)									
EM1515544-004	SP04/0-0.15	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EM1515484-001	Anonymous	EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit

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 (%)*
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 238118) - continued									
EM1515484-001	Anonymous	EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP068C: Triazines (QC Lot: 238118)									
EM1515544-004	SP04/0-0.15	EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EM1515484-001	Anonymous	EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EP068D: Pyrethroids (QC Lot: 238118)									
EM1515544-004	SP04/0-0.15	EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EM1515484-001	Anonymous	EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 238117)									
EM1515484-001	Anonymous	EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.00	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 238117)									
EM1515484-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

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 (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 238117) - continued									
EM1515484-001	Anonymous	EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 237640)									
EM1515537-021	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	16	14	14.9	No Limit
EM1515542-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 238116)									
EM1515484-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 237640)									
EM1515537-021	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	42	36	16.0	No Limit
EM1515542-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 238116)									
EM1515484-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50	0.00	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080: BTEXN (QC Lot: 237640)									
EM1515537-021	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	1.1	1.2	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EM1515542-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

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 (%)*
EP080: BTEXN (QC Lot: 237640) - continued									
EM1515542-001	Anonymous	EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	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 Sample (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: 237831)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	102	79	113
EG005T: Barium	7440-39-3	10	mg/kg	<10	143 mg/kg	103	92	116
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	5.63 mg/kg	114	77	125
EG005T: Boron	7440-42-8	50	mg/kg	<50	33.2 mg/kg	117	84	124
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	94.2	87	115
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	104	89	113
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	16 mg/kg	99.7	81	117
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	107	90	116
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	96.3	85	107
EG005T: Manganese	7439-96-5	5	mg/kg	<5	130 mg/kg	104	87	113
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	100	89	111
EG005T: Selenium	7782-49-2	5	mg/kg	<5	5.37 mg/kg	98.7	93	109
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	29.6 mg/kg	103	81	117
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	106	89	111
EG035T: Total Recoverable Mercury by FIMS (QCLot: 237832)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	92.5	85	103
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 237731)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	40 mg/kg	95.3	80	120
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 238355)								
EK028SF: Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	20 mg/kg	105	86	118
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 238115)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	116	55	135
EP068A: Organochlorine Pesticides (OC) (QCLot: 238118)								
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.1	50	134
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	73.2	51	131
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	88.6	38	140
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	71.0	52	128
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	70.7	45	133
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	68.1	57	135
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	70.6	46	134
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	52	132
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	74.0	51	131
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	68.2	52	128
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	70.3	51	131

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 238118) - continued								
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.9	50	132
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	67.0	41	141
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	38	130
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.6	52	132
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	71.2	49	133
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	66.7	48	128
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	73.6	52	130
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	71.8	43	133
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	86.7	41	141
EP068: Mirex	2385-85-5	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	58	138
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	73.8	51	131
EP068B: Organophosphorus Pesticides (OP) (QCLot: 238118)								
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	35.7	14	162
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	71.3	53	131
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	92.2	51	133
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	66.5	50	134
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	66.5	54	135
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.6	53	131
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	72.0	41	141
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	74.3	53	131
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	34	134
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	55.5	43	139
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	69.4	51	133
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	54.8	46	138
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	72.2	51	131
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	58.6	51	133
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	12.8	10	184
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	69.2	51	135
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	74.8	49	133
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	72.7	51	133
EP068C: Triazines (QCLot: 238118)								
EP068: Atrazine	1912-24-9	0.05	mg/kg	<0.05	0.5 mg/kg	74.8	54	138
EP068D: Pyrethroids (QCLot: 238118)								
EP068: Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	54	132
EP075(SIM)A: Phenolic Compounds (QCLot: 238117)								
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	3 mg/kg	107	57	119
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	3 mg/kg	82.1	54	120
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	3 mg/kg	98.1	61	117

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)A: Phenolic Compounds (QCLot: 238117) - continued								
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	3 mg/kg	101	66	114
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	3 mg/kg	96.8	65	117
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	3 mg/kg	106	67	113
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	3 mg/kg	104	66	114
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	3 mg/kg	82.9	56	116
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	6 mg/kg	91.8	62	122
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	3 mg/kg	87.3	57	119
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	6 mg/kg	68.7	16	124
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	3 mg/kg	106	65	113
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 238117)								
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	109	68	114
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	91.3	61	125
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	102	68	116
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	95.6	62	116
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	86.6	64	114
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	105	64	114
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	104	59	117
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	103	67	115
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	110	63	119
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	104	62	114
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	107	67	115
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	105	62	120
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	104	62	116
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	99.9	65	119
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	100	69	113
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	109	66	116
EP080/071: Total Petroleum Hydrocarbons (QCLot: 237640)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	88.1	66	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 238116)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	658 mg/kg	103	65	131
EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	3160 mg/kg	112	70	126
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1448 mg/kg	112	70	122
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 237640)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	86.7	64	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 238116)								
EP071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	1051 mg/kg	109	68	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 238116) - continued								
EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	4124 mg/kg	110	72	116
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	161 mg/kg	107	38	132
EP080: BTEXN (QCLot: 237640)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	85.1	74	124
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	92.8	72	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	96.0	72	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	109	66	132
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	100	76	130
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	92.1	75	129

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**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005T: Total Metals by ICP-AES (QCLot: 237831)							
EM1515526-021	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	105	78	124
		EG005T: Barium	7440-39-3	50 mg/kg	90.9	71	135
		EG005T: Beryllium	7440-41-7	50 mg/kg	111	85	125
		EG005T: Cadmium	7440-43-9	50 mg/kg	102	84	116
		EG005T: Chromium	7440-47-3	50 mg/kg	103	79	121
		EG005T: Copper	7440-50-8	50 mg/kg	105	82	124
		EG005T: Lead	7439-92-1	50 mg/kg	# 77.6	76	124
		EG005T: Manganese	7439-96-5	50 mg/kg	# Not Determined	68	136
		EG005T: Nickel	7440-02-0	50 mg/kg	92.8	78	120
		EG005T: Selenium	7782-49-2	50 mg/kg	94.6	71	125
		EG005T: Vanadium	7440-62-2	50 mg/kg	98.8	76	124
		EG005T: Zinc	7440-66-6	50 mg/kg	96.1	74	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 237832)							
EM1515526-021	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	89.6	76	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 237731)							
EM1515484-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	40 mg/kg	95.2	58	114
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 238355)							

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
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser (QCLot: 238355) - continued							
EM1515544-010	SP10/0-0.15	EK028SF: Weak Acid Dissociable Cyanide	----	20 mg/kg	79.1	70	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 238115)							
EM1515514-002	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	65.0	44	144
EP068A: Organochlorine Pesticides (OC) (QCLot: 238118)							
EM1515502-001	Anonymous	EP068: 4.4`-DDT	50-29-3	0.5 mg/kg	79.7	20	133
		EP068: Aldrin	309-00-2	0.5 mg/kg	69.3	23	136
		EP068: Dieldrin	60-57-1	0.5 mg/kg	69.4	42	136
		EP068: Endrin	72-20-8	0.5 mg/kg	78.5	23	146
		EP068: gamma-BHC	58-89-9	0.5 mg/kg	60.1	22	139
		EP068: Heptachlor	76-44-8	0.5 mg/kg	66.5	18	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 238118)							
EM1515502-001	Anonymous	EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	68.8	45	133
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	66.5	41	127
		EP068: Diazinon	333-41-5	0.5 mg/kg	70.6	49	135
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	70.4	47	133
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	53.5	40	128
EP075(SIM)A: Phenolic Compounds (QCLot: 238117)							
EM1515526-021	Anonymous	EP075(SIM): 2-Chlorophenol	95-57-8	3 mg/kg	102	65	123
		EP075(SIM): 2-Nitrophenol	88-75-5	3 mg/kg	89.8	40	134
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	93.6	56	122
		EP075(SIM): Pentachlorophenol	87-86-5	3 mg/kg	85.8	15	139
		EP075(SIM): Phenol	108-95-2	3 mg/kg	104	63	117
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 238117)							
EM1515526-021	Anonymous	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	111	67	117
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	# Not Determined	52	148
EP080/071: Total Petroleum Hydrocarbons (QCLot: 237640)							
EM1515537-024	Anonymous	EP080: C6 - C9 Fraction	----	28 mg/kg	65.3	42	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 238116)							
EM1515502-002	Anonymous	EP071: C10 - C14 Fraction	----	658 mg/kg	107	53	123
		EP071: C15 - C28 Fraction	----	3160 mg/kg	113	70	124
		EP071: C29 - C36 Fraction	----	1448 mg/kg	# 113	64	118
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 237640)							
EM1515537-024	Anonymous	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	59.9	39	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 238116)							
EM1515502-002	Anonymous	EP071: >C10 - C16 Fraction	>C10_C16	1051 mg/kg	112	65	123

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*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 238116) - continued							
EM1515502-002	Anonymous	EP071: >C16 - C34 Fraction	----	4124 mg/kg	111	67	121
		EP071: >C34 - C40 Fraction	----	161 mg/kg	111	44	126
EP080: BTEXN (QCLot: 237640)							
EM1515537-024	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	81.0	50	136
		EP080: Toluene	108-88-3	2 mg/kg	89.0	56	139

ALS Environmental

QA/QC Compliance Assessment for DQO Reporting

Work Order	: **EM1515544**	Page	: 1 of 7
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Telephone	: +61-3-8549 9608
Project	: LEOPOLD	Date Samples Received	: 08-Oct-2015
Site	: ----	Issue Date	: 13-Oct-2015
Sampler	: ANDREW WIGLEY	No. of samples received	: 12
Order number	: ----	No. of samples analysed	: 12

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.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **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.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EG005T: Total Metals by ICP-AES	EM1515526--021	Anonymous	**Manganese**	7439-96-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons	EM1515526--021	Anonymous	**Pyrene**	129-00-0	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Analysis Holding Time Compliance

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								
Soil Glass Jar - Unpreserved (EA055-103)								
SP01/0-0.15,	SP02/0-0.15,	**08-Oct-2015**	**----**	----	----	**09-Oct-2015**	22-Oct-2015	✓
SP03/0-0.15,	SP04/0-0.15,							
SP05/0-0.15,	SP06/0-0.15,							
SP07/0-0.15,	SP08/0-0.15,							
SP09/0-0.15,	SP10/0-0.15,							
SP11/0.35-0.5,	SP12/0.35-0.5							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
SP01/0-0.15,	SP02/0-0.15,	**08-Oct-2015**	**09-Oct-2015**	05-Apr-2016	✓	**09-Oct-2015**	05-Apr-2016	✓
SP03/0-0.15,	SP04/0-0.15,							
SP05/0-0.15,	SP06/0-0.15,							
SP07/0-0.15,	SP08/0-0.15,							
SP09/0-0.15,	SP10/0-0.15,							
SP11/0.35-0.5,	SP12/0.35-0.5							

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
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
SP01/0-0.15, SP02/0-0.15, SP03/0-0.15, SP04/0-0.15, SP05/0-0.15, SP06/0-0.15, SP07/0-0.15, SP08/0-0.15, SP09/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	05-Nov-2015	✓	**12-Oct-2015**	05-Nov-2015	✓
EG048: Hexavalent Chromium (Alkaline Digest)							
Soil Glass Jar - Unpreserved (EG048G)							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	05-Nov-2015	✓	**09-Oct-2015**	16-Oct-2015	✓
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser							
Soil Glass Jar - Unpreserved (EK028SF)							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**12-Oct-2015**	23-Oct-2015	✓
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**09-Oct-2015**	18-Nov-2015	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
SP01/0-0.15, SP02/0-0.15, SP03/0-0.15, SP04/0-0.15, SP05/0-0.15, SP06/0-0.15, SP07/0-0.15, SP08/0-0.15, SP09/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**09-Oct-2015**	18-Nov-2015	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP071)							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**09-Oct-2015**	18-Nov-2015	✓
EP075(SIM)T: PAH Surrogates							
Soil Glass Jar - Unpreserved (EP075(SIM))							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**09-Oct-2015**	18-Nov-2015	✓
EP080S: TPH(V)/BTEX Surrogates							
Soil Glass Jar - Unpreserved (EP080)							
SP02/0-0.15, SP10/0-0.15, SP11/0.35-0.5, SP12/0.35-0.5	**08-Oct-2015**	**09-Oct-2015**	22-Oct-2015	✓	**09-Oct-2015**	22-Oct-2015	✓

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)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Moisture Content	EA055-103	1	10	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	2	19	**10.53**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	9	**11.11**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	19	**10.53**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	19	**10.53**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	2	17	**11.76**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	4	**25.00**	**10.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	9	**11.11**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	4	**25.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	9	**11.11**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	4	**25.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	**5.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	9	**11.11**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement

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*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	1	19	**5.26**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
WAD Cyanide by Segmented Flow Analyser	EK028SF	1	4	**25.00**	**5.00**	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement

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	EA055-103	SOIL	In-house. A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 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)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060A. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
WAD Cyanide by Segmented Flow Analyser	EK028SF	SOIL	In house: Referenced to APHA 4500-CN-O. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Hydrogen cyanide is liberated from a slightly acidified (pH 4.5) and is dialysed. Tight cyanide complexes that would not be amenable to oxidation by chlorine are not converted. Iron cyanide complexes are precipitated with zinc acetate. Liberated HCN diffuses through a membrane into a stream of sodium hydroxide where it is carried as CN- The cyanide in caustic solution is buffered to pH 5.2 and further converted to cyanogen chloride by reaction with chloramine-T. Cyanogen chloride subsequently reacts with 4 ¿pyridine carboxylic and 1,3 - dimethylbarbituric acids to give a red colour complex. This colour is measured at 600 nm. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

Environmental Site Assessments

Appendix 3: Results Comparison Table

				BTEX								Halogenated Benzenes	Halogenated Phenols						Herbicides	Inorganics	Lead	Metal							
				Benzene	Ethylbenzene	Toluene	Total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	Hexachlorobenzene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	Atrazine	Moisture	Lead	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.5	0.5	0.5	10	0.05	0.5	0.5	0.5	0.5	0.5	2	0.05	1	5	5	10	1	50	1	0.5	2	2
NEPM 2013 Table 1A(1) HILs Res A Soil												10						100	320		300	100		60	4500	20	100		100
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																										
SP01	0-0.15	8/10/2015	SP01/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	5.2	18	14	-	-	-	<1	-	20	-
SP02	0-0.15	8/10/2015	SP02/0-0.15	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	3.2	17	15	20	<1	<50	<1	<0.5	34	2
SP03	0-0.15	8/10/2015	SP03/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	4.2	23	5	-	-	-	<1	-	10	-
SP04	0-0.15	8/10/2015	SP04/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	8.3	18	14	-	-	-	<1	-	39	-
SP05	0-0.15	8/10/2015	SP05/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	6.1	14	14	-	-	-	<1	-	21	-
SP06	0-0.15	8/10/2015	SP06/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	5.6	18	9	-	-	-	<1	-	25	-
SP07	0-0.15	8/10/2015	SP07/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	6.2	55	<5	-	-	-	<1	-	7	-
SP08	0-0.15	8/10/2015	SP08/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	7.4	29	5	-	-	-	<1	-	7	-
SP09	0-0.15	8/10/2015	SP09/0-0.15	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	2.2	9	<5	-	-	-	<1	-	18	-
SP10	0-0.15	8/10/2015	SP10/0-0.15	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	5.5	24	7	30	<1	<50	<1	<0.5	16	3
SP11	0.35-0.5	8/10/2015	SP11/0.35-0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	11.4	54	5	30	<1	<50	<1	<0.5	9	<2
SP12	0.35-0.5	8/10/2015	SP12/0.35-0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05	3.2	<5	<5	<10	<1	<50	<1	<0.5	10	<2

	s							Organochlorine Pesticides																							
	Copper	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	0.1	2	5	5	5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil	6000	3800	40	400	200		7400				6		50						240		270				10				6	

LocCode	Sample_Depth_Range	Sampled_Date-Time	Field_ID																												
SP01	0-0.15	8/10/2015	SP01/0-0.15	<5	-	<0.1	5	-	-	14	<0.05	<0.05	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP02	0-0.15	8/10/2015	SP02/0-0.15	<5	26	<0.1	5	<5	72	8	<0.05	<0.05	<0.05	0.08	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP03	0-0.15	8/10/2015	SP03/0-0.15	<5	-	<0.1	3	-	-	16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP04	0-0.15	8/10/2015	SP04/0-0.15	<5	-	<0.1	7	-	-	6	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP05	0-0.15	8/10/2015	SP05/0-0.15	<5	-	<0.1	4	-	-	12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP06	0-0.15	8/10/2015	SP06/0-0.15	<5	-	<0.1	4	-	-	24	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP07	0-0.15	8/10/2015	SP07/0-0.15	<5	-	<0.1	3	-	-	44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP08	0-0.15	8/10/2015	SP08/0-0.15	<5	-	<0.1	3	-	-	88	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP09	0-0.15	8/10/2015	SP09/0-0.15	<5	-	<0.1	<2	-	-	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP10	0-0.15	8/10/2015	SP10/0-0.15	<5	101	<0.1	7	<5	37	42	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP11	0.35-0.5	8/10/2015	SP11/0.35-0.5	5	93	<0.1	7	<5	17	510	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP12	0.35-0.5	8/10/2015	SP12/0.35-0.5	<5	73	<0.1	3	<5	15	9	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

				Organophosphorous Pesticides															PAH	PAH/Phenols													
				Methoxychlor	Azinophos methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenthion	Malathion	Methyl parathion	Monocrotophos	Prothiofos	Benzo[b+j]fluoranthene	2,4-dimethylphenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil				300					160																								
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																														
SP01	0-0.15	8/10/2015	SP01/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02	0-0.15	8/10/2015	SP02/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP03	0-0.15	8/10/2015	SP03/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP04	0-0.15	8/10/2015	SP04/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP05	0-0.15	8/10/2015	SP05/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06	0-0.15	8/10/2015	SP06/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP07	0-0.15	8/10/2015	SP07/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP08	0-0.15	8/10/2015	SP08/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP09	0-0.15	8/10/2015	SP09/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	8/10/2015	SP10/0-0.15	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP11	0.35-0.5	8/10/2015	SP11/0.35-0.5	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SP12	0.35-0.5	8/10/2015	SP12/0.35-0.5	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

											Pesticides						Polychlorinated Biphenyls	TPH										
				Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene	Bifenthrin	Demeton-S-methyl	Fenamiphos	Mirex	Parathion	Pirimphos-ethyl	PCBs (Sum of total)	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C6-C10
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.2	0.05	0.1	50	100	100	50	10	50	100	100	50	50	10
NEPM 2013 Table 1A(1) HILs Res A Soil										3000		600			10			1											
LocCode	**Sample_Depth_Range**	**Sampled_Date-Time**	**Field_ID**																										
SP01	0-0.15	8/10/2015	SP01/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP02	0-0.15	8/10/2015	SP02/0-0.15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP03	0-0.15	8/10/2015	SP03/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP04	0-0.15	8/10/2015	SP04/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP05	0-0.15	8/10/2015	SP05/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP06	0-0.15	8/10/2015	SP06/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP07	0-0.15	8/10/2015	SP07/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP08	0-0.15	8/10/2015	SP08/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP09	0-0.15	8/10/2015	SP09/0-0.15	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	<0.2	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	8/10/2015	SP10/0-0.15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP11	0.35-0.5	8/10/2015	SP11/0.35-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP12	0.35-0.5	8/10/2015	SP12/0.35-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<0.1	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10

Environmental Site Assessments

Appendix 4: Sample Location Plan

Environmental
Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Legend

Sample Point

Aerial sourced from Nearmap

Designed:	A.Wigley	Revision:	1
Drawn:	A.Wigley	Date:	7.10.15
File:	Sample Locations.pdf		

N W E S

0 Metres 50

Title:	Sample Locations
Project:	TGM - Mollers Lane
Location:	2-30 Mollers Lane, Leopold
Client:	Mollers Lane Developments Pty Ltd C/O TGM

Appendix 6: Title Information

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Entered in the Register Book

VICTORIA.

Vol 2770 Fol 553982
INDEX PLAN No. 38
PARCEL No. 507

Certificate of Title,

UNDER THE "TRANSFER OF LAND ACT 1890."

SECONDARY STORAGE

Andrais Kranker Moller of Leopold in the Parish of Moolap in the County of Grant, Gardener is now the proprietor of an Estate in Fee-simple, subject to the Encumbrances notified hereunder in All that piece of Land, delineated and colored red on the Map in the margin, containing Twenty acres two roods and twenty four perches or thereabouts being part of Crown allotment seventeen Section one Parish of Moolap County of Grant —

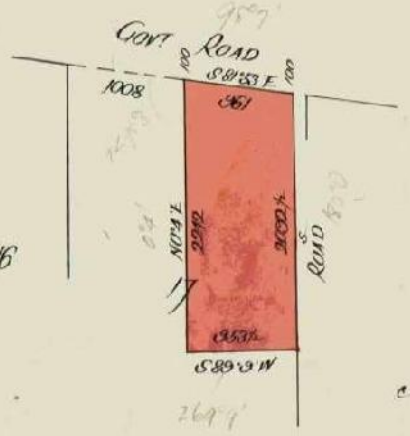
ORIGINAL CERTIFICATE.
Not to be dealt with outside the Titles Office.

Dated the tenth day of September One thousand nine hundred.

Edward Davis
Assistant Registrar of Titles.

ENCUMBRANCES REFERRED TO.

A Mortgage dated the 1st day of September 1899 registered Book 445 No 882 Andrais Kranker Möller Horace Frank Richardson, Ebenezer Edward Hardy and James Hugh McPhillemy Trustees of the Corio Branch of the Australasian Natives Association No 55 Geelong



Memo. The encumbrance notified above has been removed 20th June 1910

M K Davis
Assistant Registrar of Titles
A 5995

T02770-982-1-1

THE WHOLE OR PART OF THE WITHIN LAND HAS BEEN SUBDIVIDED SEE Unregistered Plan Misc. Plan 74593 L.P.

The Measurements are in Links

P/S 174593

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Vol. Fol. Transfer Application 52112.

Nature of Instrument.	Day and Hour of its Production.	Names of the Parties to it.	Number or Symbol thereon.
DISCHARGED Mortgage 15th September 1910 ASSISTANT REGISTRAR OF TITLES.	The 20th June 1910 at 2.12 p.m.	Andreas Kranker Möller to Horace Frank Richardson Ebenezer Edward Hendy and James Hugh Mc Phillimy Assistant Registrar of Titles.	283957
Red Ink No. 332134 Andreas Kranker Möller died on 6th March 1933 Probate of his Will has been granted to NATIONAL TRUSTEES EXECUTORS AND AGENCY COMPANY OF AUSTRALASIA LIMITED of 313 Queen Street Melbourne Dated 20 September 1933 9.10.33 Assistant Registrar of Titles		WILLIAM GEORGE STINTON of Leopold Nurseryman is now the proprietor registered 16th June 1965 No.C240809	
		MORTGAGE to CHARLES VICKERS-WILLIS and ROY LINDSAY PARKHOLT registered 16th June 1965 No.C240812 DISCHARGED 9 NOV 1965 Assistant Registrar of Titles.	
Herbert Andrew Möller of Leopold Farmer is now the proprietor of the within described estate by transfer registered on 7th December 1933 and numbered 1537790 30.12.33 Assistant Registrar of Titles		MORTGAGE to THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED Registered 6th July 1965 No.C255539 DISCHARGED 17 FEB 1966 Assistant Registrar of Titles.	
CAVEAT No. B378200 LODGED - 7 MAR 1962 CAVEAT LAPSED 25 JUN 1965		CANCELLED AS TO PART Pursuant to Regulation 12 and Titles issued as set out hereunder on 27TH OCTOBER 1966 LOTS ONE TO 3 IN VOL. 8643 FOL. 236 TO 8643 238 L.P. 74593 Assistant Registrar of Titles.	
		Assistant Registrar of Titles.	
		Assistant Registrar of Titles.	

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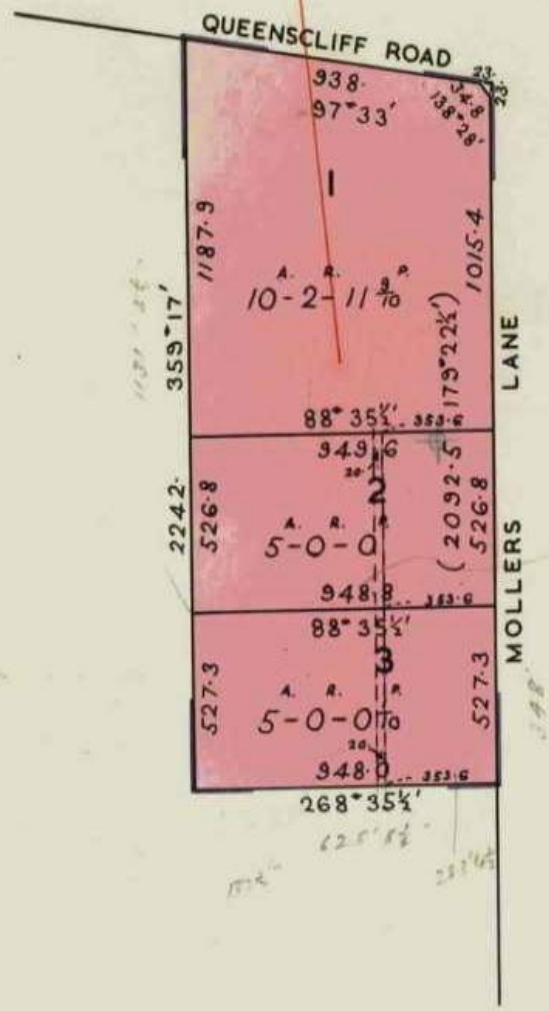
SCALE to one inch

Volume 2770. Folio – 982.

L.P. 74593 CANCELS FROM THIS TITLE
ALL LOTS ON SAID L.P.
3 CERTS TO ISSUE.



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T02770-982-2-0

L.P. 74593.

21/10/66.

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Natural Resources and Environment

AGRICULTURE · RESOURCES · CONSERVATION · LAND MANAGEMENT

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6067/349 - Version 2, Date 05/10/1999

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VICTORIA.

Entered in the Register Book

Vol. 6067 Fol. 1213349

INDEX PLAN No. 38

PARCEL No. 521

Certificate of Title,

UNDER THE "TRANSFER OF LAND ACT 1928."

George Alfred Wilson Farmer and Lilian May Wilson Married Woman both of Leopold in the County of Grant are now joint proprietors - - -

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Vol. Fol. Transfer. Application. 49143

2

Edward Percival Carroll of Ballsford Farmer is now the proprietor of the within described estate by transfer registered on 11th November 1943 and numbered 1899795
30-11-43 B.H. Sinclair
Assistant Registrar of Titles

Lawrence Percival Carroll of Leopold Farmer is now the proprietor of the within described estate by transfer registered on 9th February 1951 and numbered 2365843
1.5.51 P.C.H. Vasdon
Assistant Registrar of Titles

TRANSFER AS TO PART to Norman Carroll Viney and Florence Mabel Viney registered on 9 JUN 1954 numbered 2649839
CANCELLED AS TO PART See Certificate of Title Vol. 8068 Fol. 071
J. Brown
Assistant Registrar of Titles

TRANSFER AS TO PART to Kevin David Reh registered on 21 JUN 1954 numbered 2649840
CANCELLED AS TO PART See Certificate of Title Vol. 8068 Fol. 072
J. Brown
Assistant Registrar of Titles

TRANSFER AS TO PART No. A125998
registered 14 March 1956
CANCELLED AS TO PART See Vol. 8133 Fol. 554
Assistant Registrar of Titles

TRANSFER AS TO PART No. A248795
registered 9 Nov. 1956
CANCELLED AS TO PART See Vol. 8133 Fol. 555
Assistant Registrar of Titles

Caveat transferred to new C/T 8174-903
Caveat transferred to new C/T 8174-903
Caveat transferred to new C/T 8174-902
Caveat transferred to new C/T 8174-902
Caveat transferred to new C/T 8174-903
Caveat transferred to new C/T 8174-902

TRANSFER AS TO PART No. A270626
registered 21st December 1956
CANCELLED AS TO PART See Vol. 8153 Fol. 017
Assistant Registrar of Titles

CAVEAT No. A412195 LODGED 3rd October 1957
Affecting part of the land herein Lot 5 (P/S 34631)
CAVEAT LAPSED 2.

CANCELLED AS TO PART APPLICATION No. A531098
registered 7th October 1957 See Vol. 8174 Fol. 902 903
J.J. Gordon
Assistant Registrar of Titles

TRANSFER AS TO PART No. A524478
registered 8th May 1958
CANCELLED AS TO PART See Vol. 8179 Fol. 774
J.J. Gordon
Assistant Registrar of Titles

TRANSFER AS TO PART No. A495000
registered 17 March 1958
CANCELLED AS TO PART See Vol. 8193 Fol. 595
Lots 6 and 10
J. Jones
Assistant Registrar of Titles

CAVEAT No. 714938 LODGED 8th April 1959
Affecting part of the land herein Lot 7 (P/S 34631)
CAVEAT LAPSED 11th September 1959

TRANSFER AS TO PART No. A586833
registered 15 August 1958
CANCELLED AS TO PART See Vol. 8211 Fol. 396
OFFICE OF TITLES W.M. VICTORIA

TRANSFER AS TO PART No. A815338
registered 11 September 1959
CANCELLED AS TO PART See Vol. 8238 Fol. 599
Lots 7-8.

TRANSFER AS TO PART No. B272759
registered 1 September 1961
CANCELLED AS TO PART See Vol. 8342 Fol. 176
Lot 5
OFFICE OF TITLES C.T. VICTORIA

COUNTRY ROADS BOARD
has pursuant to section 57 of Transfer of Land Act served a Notification relating to the compulsory acquisition of land comprised herein
Dated 2 JUL 1968
Entered 8 JUL 1968
No. D 11966 (Plan with letter)
OFFICE OF TITLES C.T. VICTORIA

TRANSFER AS TO PART No. D387998
registered 12th May 1969
CANCELLED AS TO PART See Vol. 8792 Fol. 923
Area 1R. 0.6/10P
OFFICE OF TITLES L.B. VICTORIA

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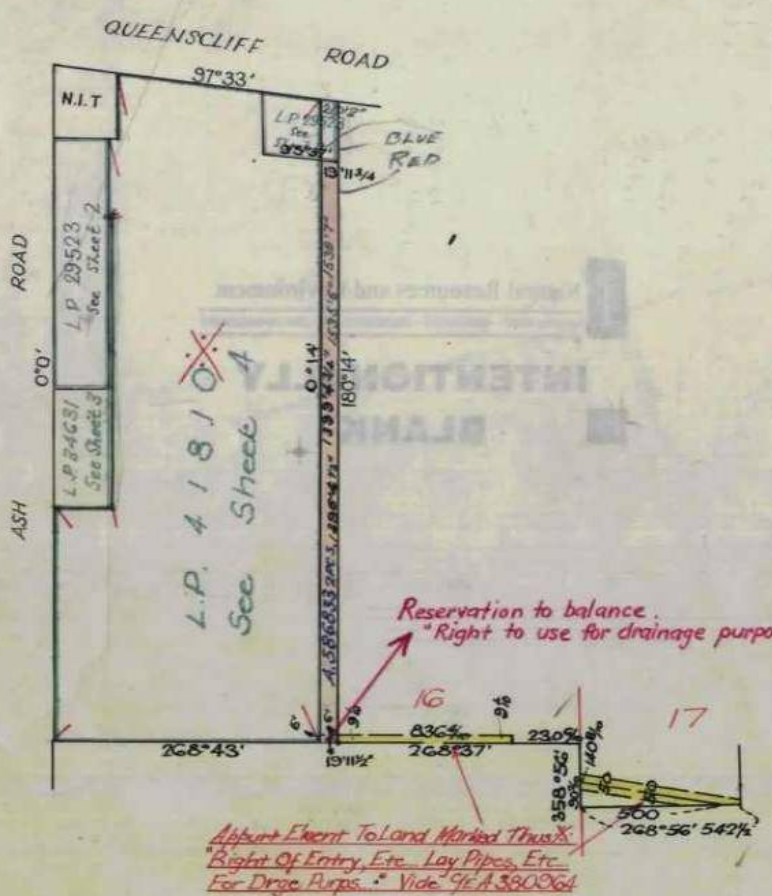
SCALE: 5 chains to one inch.

Vol. 6067 fol. -349



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Sheet 1.

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Natural Resources and Environment

AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

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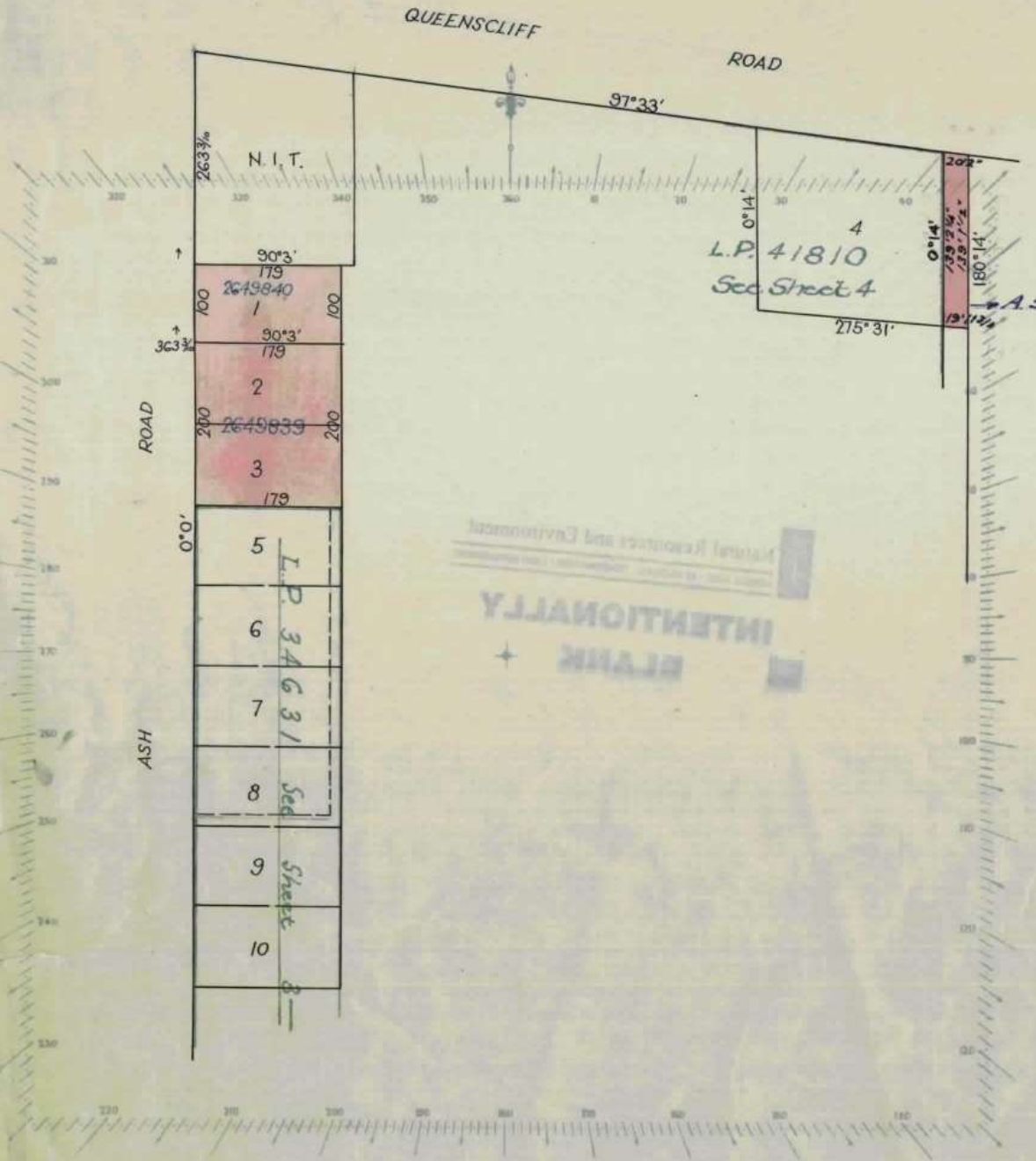
SCALE: 150 links to one inch.

Vol. 6067 fol. -349



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L.P. 29523

Sheet 2

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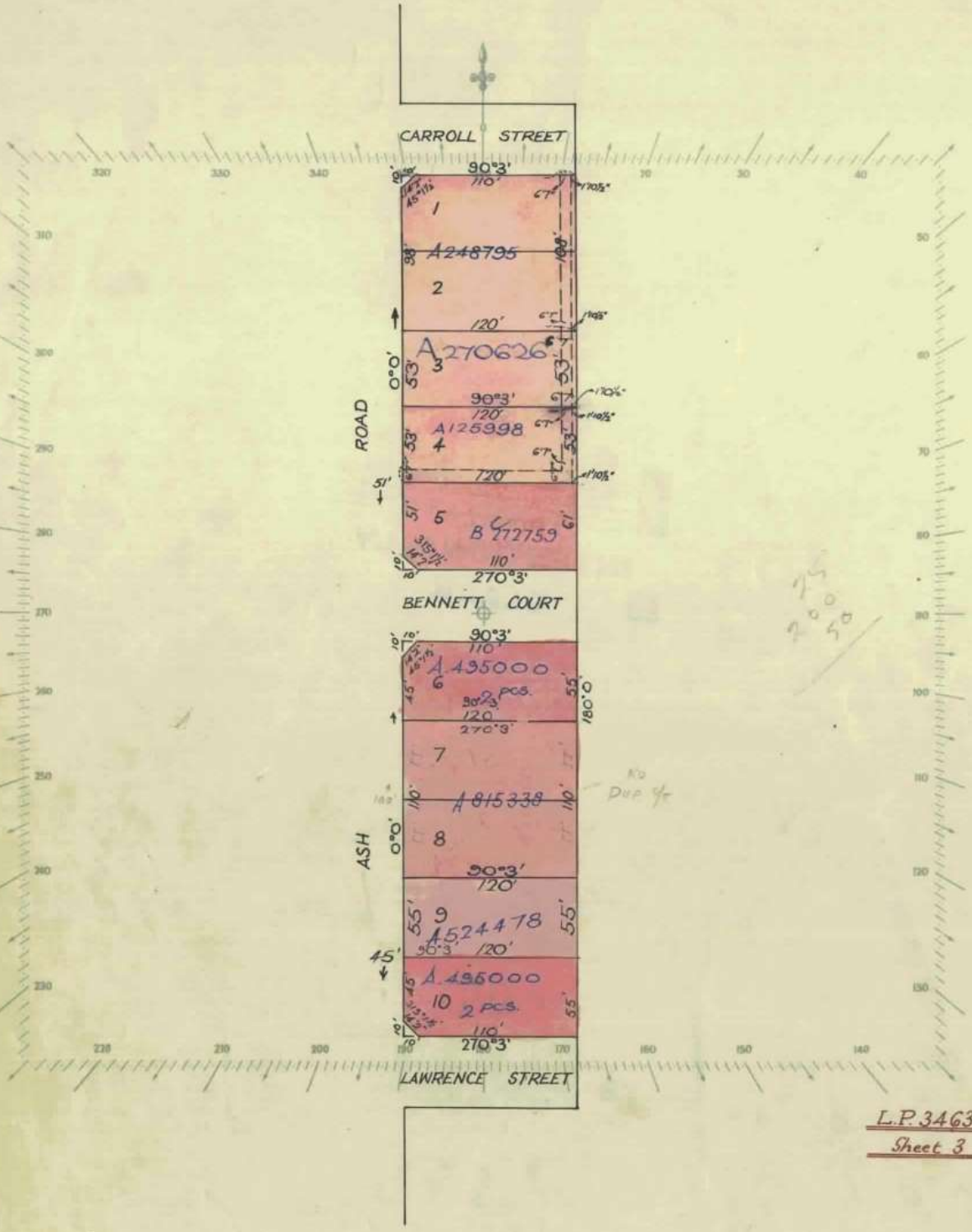
SCALE: 80 Feet to one inch

Vol. 6067 Fol. -349



L.P. 34631
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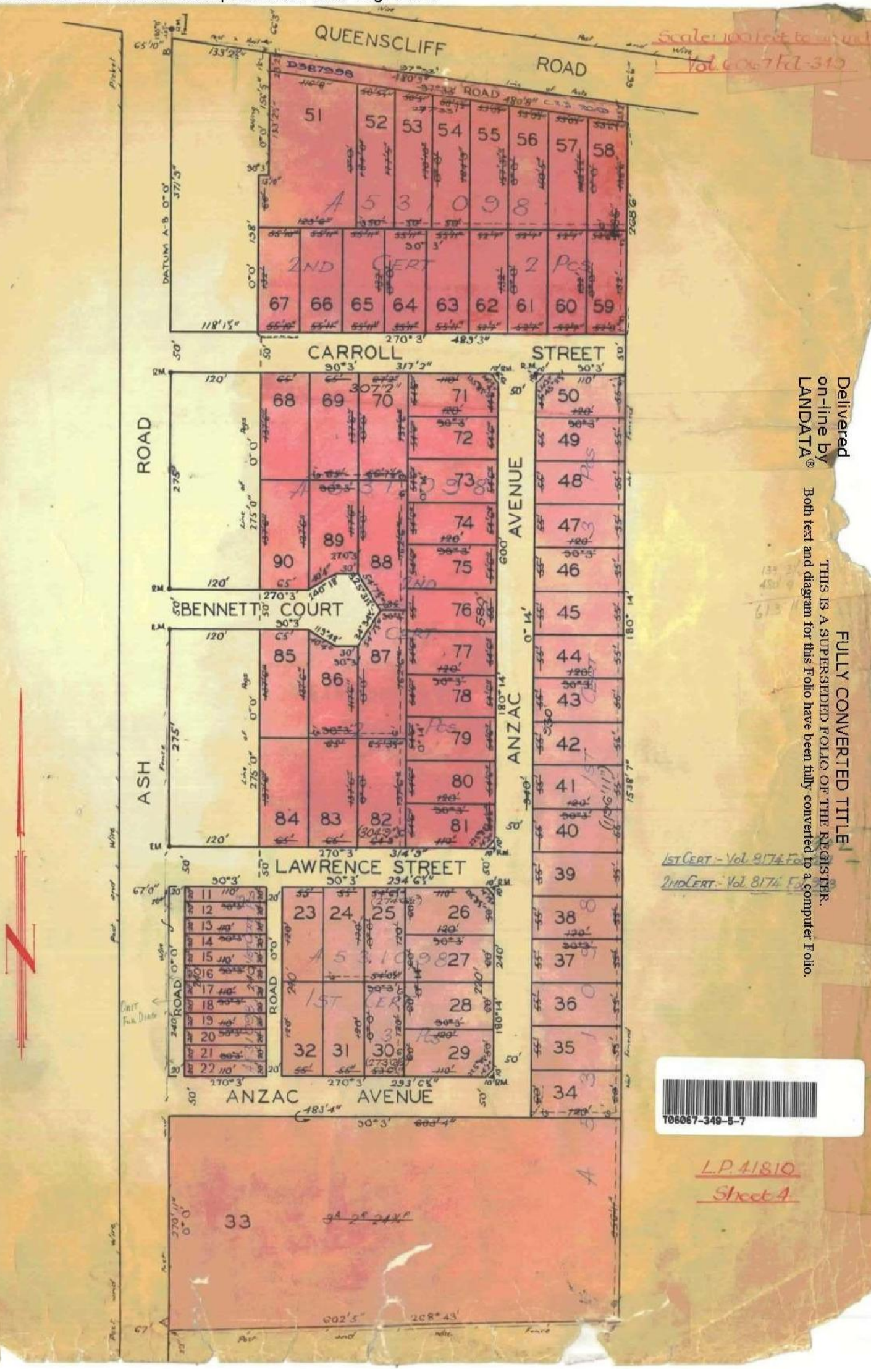

Scale: 100 feet to 1 inch
Vol 6067 Fol 349

1ST CERT - Vol. 8174 Fo
2ND CERT - Vol. 8174 Fo

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LP 41810
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Volume 06946 Folio 117
Folio Creation: Details Unknown

STATEMENT END

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6946/117 - Version 0, Date 28/09/1999

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VICTORIA.

Entered in the Register Book CANCELLED

Vol. 6946 Fol. 139117

PARCELS INDEX
SECO RY STORAG
10.8.48

Certificate of Title,

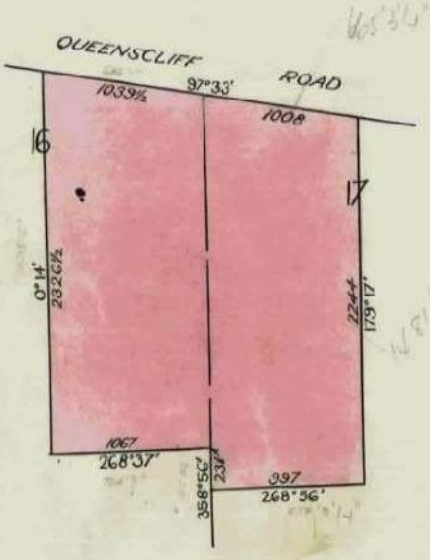
UNDER THE "TRANSFER OF LAND ACT 1928."

Frederick William Stinton of Fairview Street Newtown Geelong in the -------
County of Grant Nurseryman is ----------
now the proprietor of an Estate in Fee-simple, subject to the Encumbrances notified hereunder in All *that piece of Land, delineated and coloured* red on the map in the margin containing Forty-six acres Two roods and Thirty ----
perches or thereabouts being part of Crown Portions Sixteen and Seventeen -----
Block One Parish of Moolap County of Grant ----------

Dated the Twenty-seventh *day of* July *One thousand nine hundred and* forty-eight.

L. J. W. Vardon
Assistant Registrar of Titles.

ENCUMBRANCES REFERRED TO



The Measurements are in Links

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Vol. Fol. Transfer. Application. 50177

CANCELLED AS TO PART See Certificate of Title
Vol. 8091 Fol. 900
No. A-13436
Area 4-A 0-R 26-P
Assistant Registrar of Titles

CREATION OF EASEMENT to
Lawrence Percival Carroll
registered
on 6th August 1957 numbered A380964
Assistant Registrar of Titles

S.O. No. A579766
Frederick William Stinton
died
on 10 April 1957 Probate of his Will
has been granted to William George Stinton of Blaremont Nurseries Newtown Geelong Nurseryman and Frederick Lionel Fitcher of 368 Collins Street Melbourne Chartered Accountant.
Dated 5 August 1958

S.O. No. A 638789
William George Stinton
the survivor of the proprietors named herein is
now registered as sole proprietor of the land now comprised herein.
DATED 11 November 1958

TRANSFER AS TO BALANCE No. A889727
registered 13 January 1960
CANCELLED See Vol. 8320 Fol. 425

CANCELLED DUP. WITH

7 DEC 1961

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Vol. 6946 fol. 117

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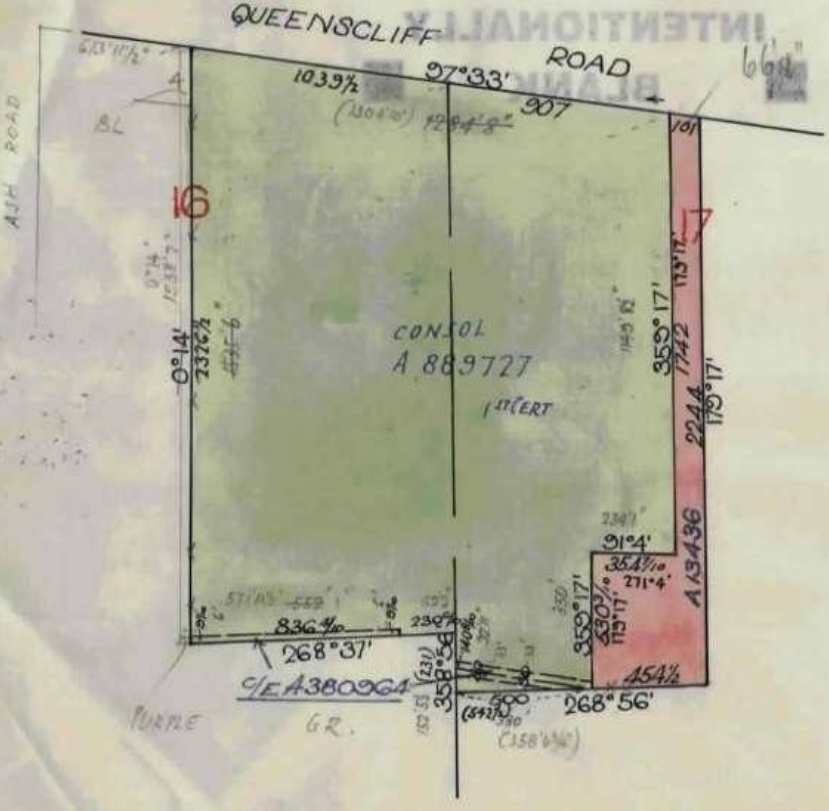

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Volume 08091 Folio 900
Folio Creation: Details Unknown
Parent title Volume 06946 Folio 117

STATEMENT END

Paper Title Images

8091/900 - Version 0, Date 19/10/1999

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ORIGINAL
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VICTORIA

CANCELLED

Entered in the Register Book

Vol. 8091 *Fol.* 900

PARCELS INDEX
SECONDARY STORAGE

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT ~~1928~~" 1954"

15/2/56

Frederick William Stinton of Fairview Street Newtown Geelong Nurseryman is -

now the proprietor -

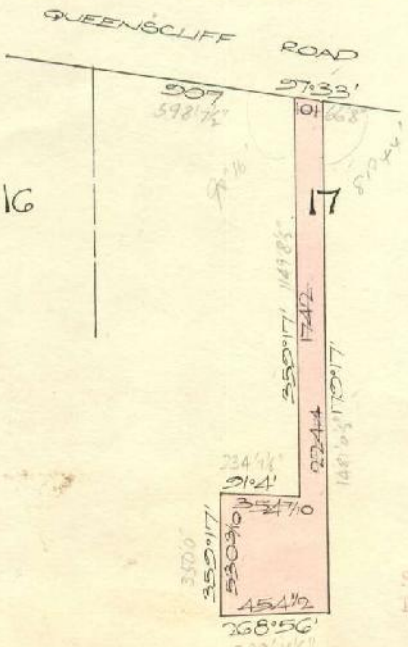
of an Estate in Fee-simple subject to the Encumbrances notified hereunder in

All *that piece of Land, delineated and coloured* red on the map in the ----

margin containing Four acres and Twenty-six perches or thereabouts being part of --

Crown Portion 17 Block One Parish of Moolap County of Grant - - - - - - - - - - -

Dated the Twenty-seventh *day of* July *One thousand nine hundred and* fifty-five.



THE MEASUREMENTS ARE IN LINKS.

THE WHOLE OR PART OF THE LAND HAS BEEN SURVEYED SEE Unregistered Plan 7178
Misc. Plan
L.P. 80614

SEE SKETCH ATTACHED TO C/TV. 8320 F. 425

Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

OFFICE OF TITLES VICTORIA

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Vol. 6946 Fol. 117 Transfer No. A13436 Application

William George Stinton of Queenscliff Road Leopold Nurseryman is now the proprietor of the within described estate by transfer registered on 9 - FEB 1956 and numbered A109781

1.8.56. Assistant Registrar of Titles

MORTGAGE to THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED registered on 18th October 1957 numbered A421736

Assistant Registrar of Titles

MORTGAGE to CHARLES VICKERS-WILLIS and ROY LINDSAY BOCKHOLT registered 16th June 1965 No.C240813

MORTGAGE to THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED Registered 6th July 1965 No.C256178

CANCELLED Pursuant to Regulation 12 and Titles issued as set out hereunder on 31st MAY 1968

LOTS ONE AND 2 IN VOL 8724 FOL 042

AND

VOL 8724 FOL 043

LP 80614

CANCELLED

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Volume 08211 Folio 396
Folio Creation: Details Unknown
Parent title Volume 06067 Folio 349

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8211/396 - Version 0, Date 16/11/1999

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CANCELLED

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VICTORIA

Entered in the Register Book

Vol. 8211 Fol. 396

PARCELS INDEX

SECONDARY STORAGE

S.O.

20-8-58

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT ~~1954~~"

William George Stinton of Claremont Nurseries Newtown Geelong Nurseryman and Frederick Lionel Fincher of 368 Collins Street Melbourne Chartered Accountant (Executors of the Will of Frederick William Stinton deceased) are - - -

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Vol. 6067 Fol. 349 | Transfer A586833 | Application

SO No. A 638789
William George Stinton

the survivor of the proprietors named herein.....is.....
now registered as Sole proprietor of the land
now comprised herein.
DATED 11 November 1958

OFFICE OF TITLES R.T. VICTORIA

TRANSFER No. A889727 registered 13 Jan 1960
CANCELLED See Vol. 8320 Fol. 425 X

OFFICE OF TITLES M.A. VICTORIA

CANCELLED

CUP. WITT

7 DEC 1961

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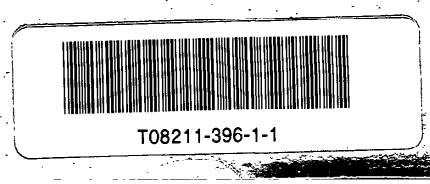

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Volume 08320 Folio 425
Folio Creation: Created as paper folio continued as computer folio
Parent titles :
Volume 06946 Folio 117
Volume 08211 Folio 396

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
17/12/2014	17/12/2014	AL568358S	N

RECTIFICATION CREATE NEW FOLIO
Cancelled by AL568358S

STATEMENT END

VOTS Snapshot

VOLUME 08320 FOLIO 425
124053425210X
Produced 17/12/2014 11:18 am

LAND DESCRIPTION

Road R1 on Plan of Subdivision 069466, Road R1 on Plan of Subdivision 072205, Roads on Plan of Subdivision 077911, Reserve 1 on Plan of Subdivision 077911.
PARENT TITLES :
Volume 06946 Folio 117 Volume 08211 Folio 396
Created by instrument A889727 13/01/1960

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
WILLIAM GEORGE STINTON of CLAREMONT NURSERIES LEOPOLD
A889727 13/01/1960

ENCUMBRANCES, CAVEATS AND NOTICES

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DIAGRAM LOCATION

SEE DIAGRAM ON IMAGED FOLIO VOLUME 8320 FOLIO 425 FOR FURTHER DETAILS AND BOUNDARIES

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VICTORIA

REGISTER BOOK

VOL. 8320 FOL. 425

INDEX PLAN No. 38

PARCEL No. 516 & 517

PARCELS INDEX
SECONDARY STORAGE

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

WILLIAM GEORGE STINTON of Claremont Nurseries Leopold Nurseryman is now the proprietor of an estate in fee simple subject to the ---- encumbrances notified hereunder in ALL THAT piece of land delineated and coloured red, blue, green and purple on the map in the margin -- containing Forty-three acres and Thirty-seven perches or thereabouts- being part of Crown Portions 16 and 17 Block One Parish of Moolap - the land coloured blue being part of Lot 4 on Plan of Subdivision --- No.29523 -

DATED the 13th day of January 1960.

Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

As to the land coloured green ---
THE DRAINAGE EASEMENT created by Instrument A.380964 - - - - - -

As to the land coloured purple ---
THE DRAINAGE EASEMENT reserved by Transfer A.586833 - - - - - - -

Derived from Vols. 6946 Fols. 117
8211 396
A.889727.

THE WHOLE/OR PART OF THE WITHIN LAND IS DESCRIBED AS SUBDIVIDED SEE Unregistered Plan Misc. Plan 69466 77911 L.P. 72205 80614

8320 425

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VOL.	FOL.	INSTRUMENT	APPLICATION

MORTGAGE to THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED
Registered 2nd July 1963
No.B692758

DISCHARGED

OFFICE OF TITLES D.D. VICTORIA

OFFICE OF TITLES H.C.A. VICTORIA

COUNTRY ROADS BOARD

has pursuant to section 57 of Transfer of Land Act served a Notification relating to the compulsory acquisition of part

of the land comprised herein.

Dated 27th May 1965

Corres. No. 651/9116 (Plan with letter)

AFFECTS LOT 1 P/S 69466 LP 77911

CANCELLED AS TO PART
Pursuant to Regulation 12 and Titles issued as set out hereunder on 27th October 196

LOTS ONLY 33 TO 62 IN VOL 8693 FOL 137
TO 8693 166

OFFICE OF TITLES J.V.F. VICTORIA

MORTGAGE to CHARLES VICKERS-WILLIS and ROY LINDSAY BOCKHOLT
Registered 16th June 1965
No.C240874

DISCHARGED 25 FEB 1970

OFFICE OF TITLES L.A. VICTORIA

OFFICE OF TITLES A.W.B. VICTORIA

CANCELLED AS TO PART
Pursuant to Regulation 12 and Titles issued as set out hereunder on 31ST MAY 1968

LOTS ONE AND 2 IN VOL 8724 FOL 042
AND
VOL 8724 FOL 043

LP 80614

OFFICE OF TITLES J.V.F. VICTORIA

MORTGAGE to THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED
registered 6th July 1965
No.C256180

DISCHARGED

OFFICE OF TITLES C.J.S. VICTORIA

OFFICE OF TITLES A.W.B. VICTORIA

CAVEAT No. D166978 LODGED 21 Aug 1968
Affecting part of the land herein Lot No. 1 P/S 82005

Caveat transferred to new C/T

CANCELLED as to part
Pursuant to Regulation 12 and Titles issued as set out hereunder on 22nd November 1965.

Lots 1 to 12 being Vol 8589 Fol 270
to " 8589 " 281

L.P. 69466

OFFICE OF TITLES KWC VICTORIA

CANCELLED AS TO PART
Pursuant to Regulation 12 and Titles issued as set out hereunder on 6th June 1966

LOTS 13 TO 32 IN Vol. 8620 Fol ~~205~~ 205
TO 8620 ~~225~~ 224

L.P. 72205

OFFICE OF TITLES J.L. VICTORIA

COUNTRY ROADS BOARD

has pursuant to section 57 of Transfer of Land Act served a Notification relating to the compulsory acquisition of land comprised herein

Dated 28 MAY 1967

Entered 8 JUN 1967

No. 1978507 (Plan with letter)

OFFICE OF TITLES C.T. VICTORIA

T08320-425-1-6

Vol. 8320 Fol. 425

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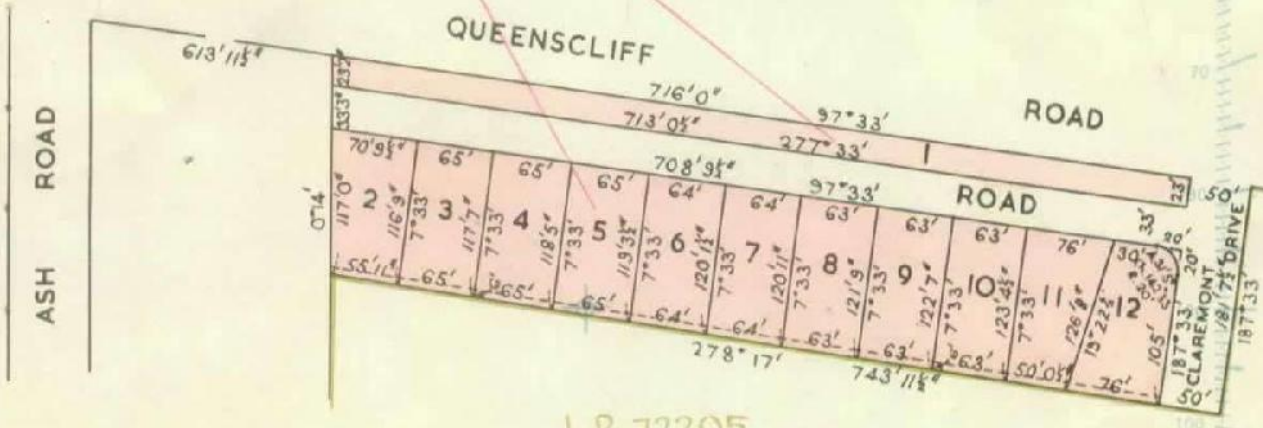
SCALE: to one

Volume 8320 Folio 425

L.P 69466 CANCELS FROM THIS TITLE
LOTS 1 TO 12 ON SAID L.P
12. CERTS TO ISSUE



L.P. 72205

SEE SHEET 2.

40^0^A 35^P

13

Lot 13 Balance Of Land
In C/t Vol. 8320. Fol 425

10/11/63

L.P 69466

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Natural Resources and Environment
ASSESSMENT · RESOURCE CONSERVATION · LAND MAN

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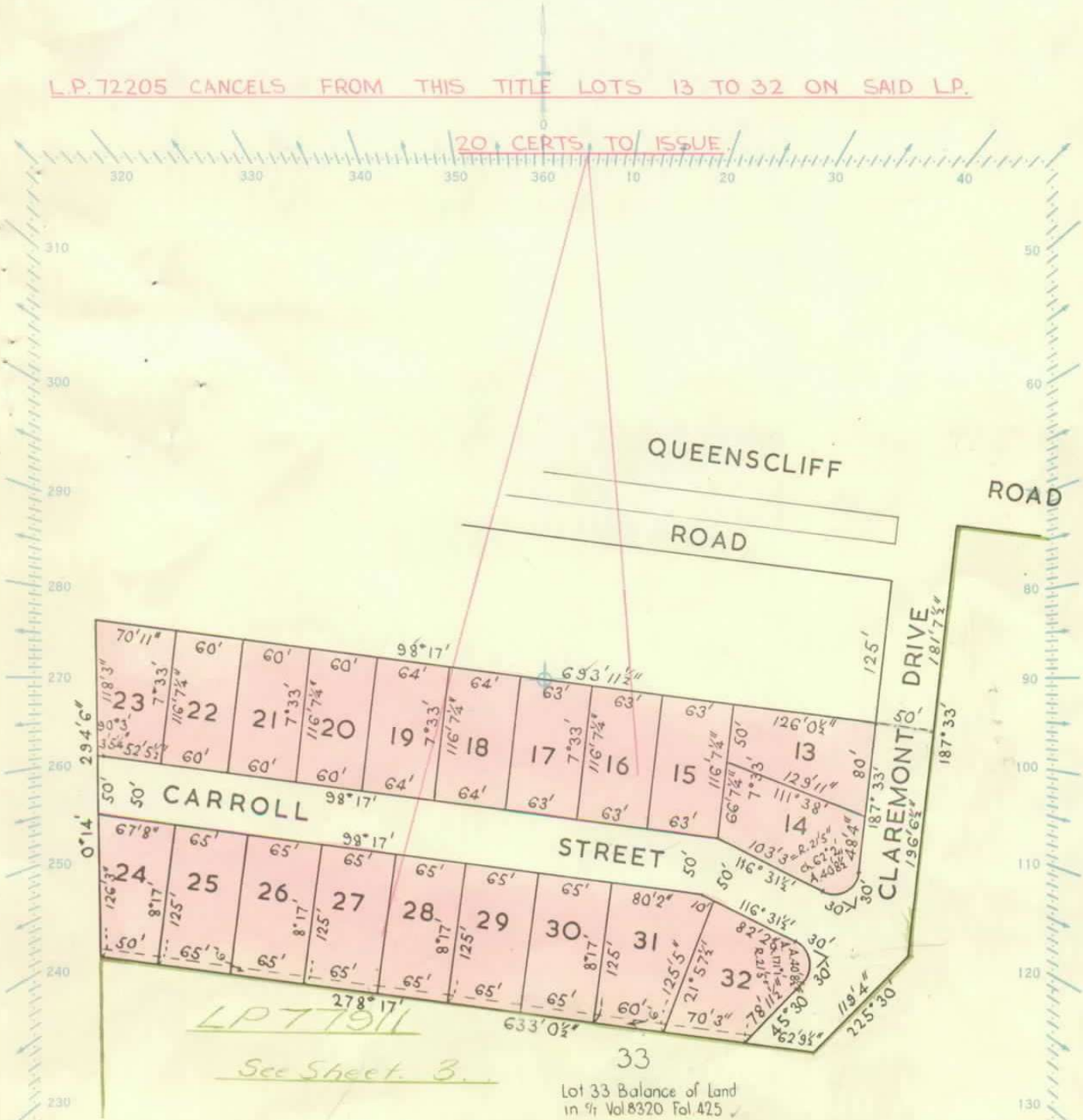
Volume 8320 Folio 425

L.P. 72205 CANCELS FROM THIS TITLE LOTS 13 TO 32 ON SAID L.P.

20 CERTS TO ISSUE



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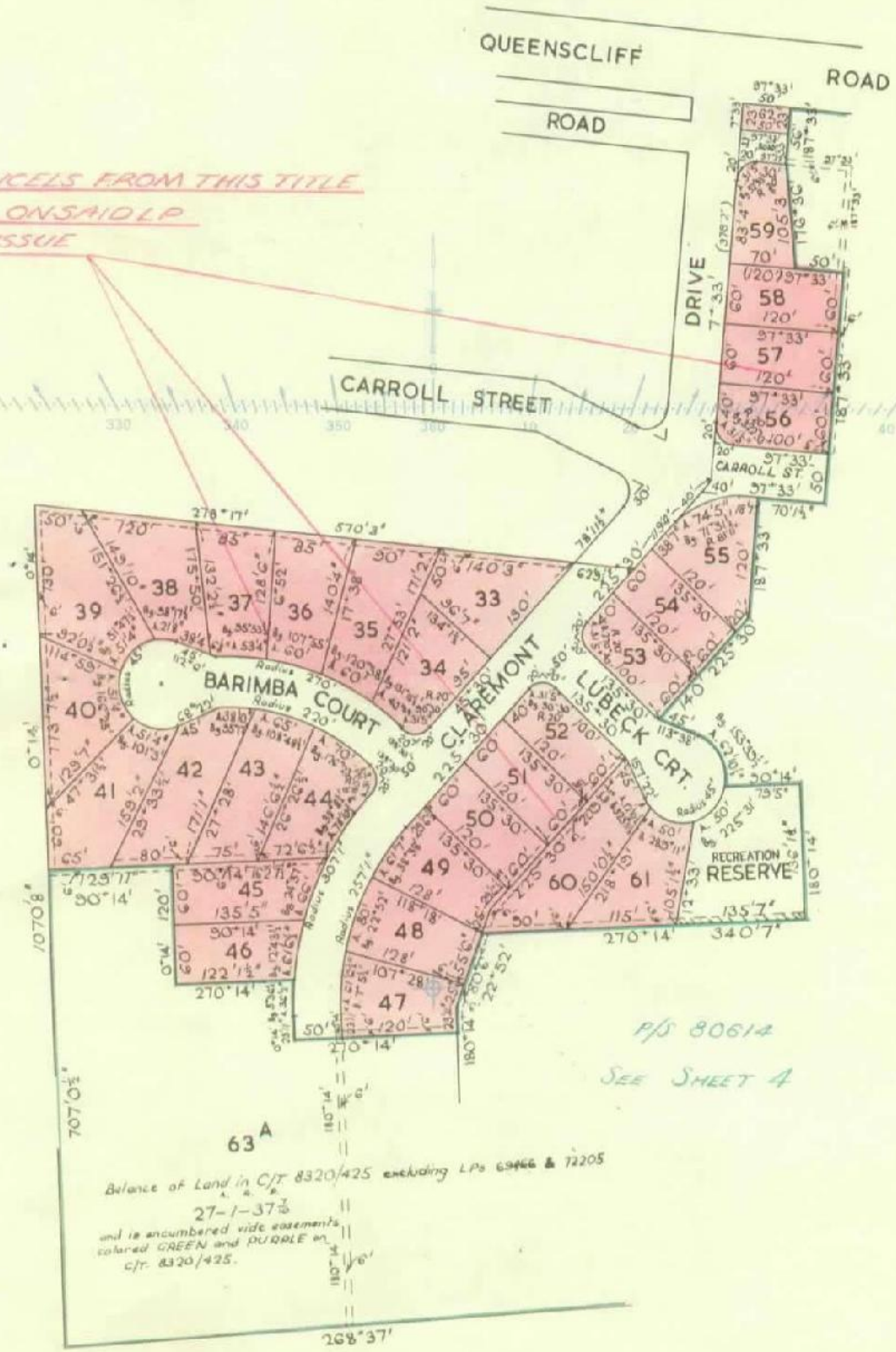
SCALE: to one inch

Volume 8320 Folio 425

LPT7911 CANCELS FROM THIS TITLE
LOTS 33 TO 62 ON SAIO LP
30 CERTS TO ISSUE



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L.T.
14/10/67

LPT7911
SHEET 3.

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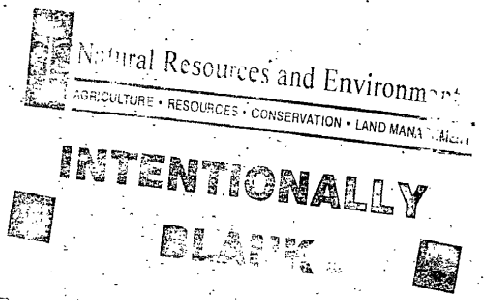

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SCALE: to one inch

Volume 8320 Folio 425
" 8091 " 900
" 8643 " 238

P/S 80614 CANCELS THE WHOLE OF C/T'S V. 8643 F. 238 AND V. 8091 F. 900 AND PART OF C/T V. 8320 F. 425 BEING BOTH LOTS ON SAID P/S
2 CERTS. TO ISSUE.

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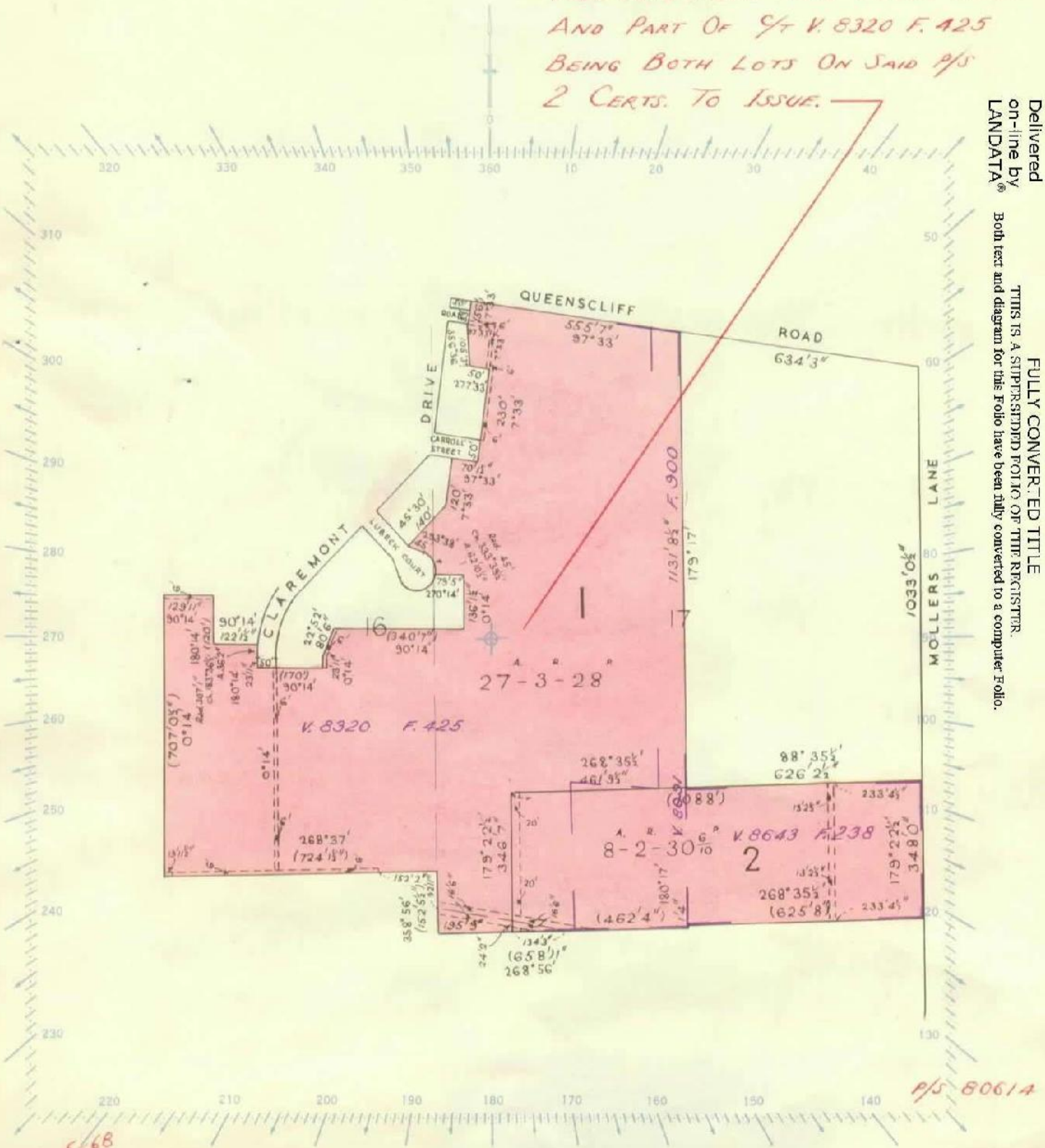

P/S 80614

SHEET 4

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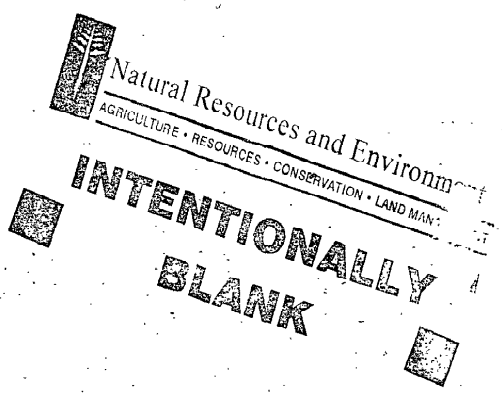

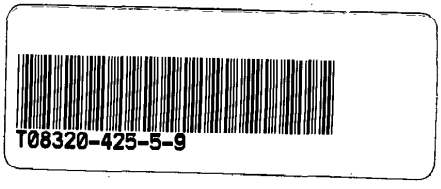

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Volume 08643 Folio 236
Folio Creation: Details Unknown
Parent title Volume 02770 Folio 982

STATEMENT END

Paper Title Images

8643/236 - Version 0, Date 19/01/2000

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ORIGINAL

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CANCELLED

REGISTER BOOK VOL. 8643 FOL. 236

PARCELS INDEX
SECONDARY STORAGE

VICTORIA

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

VOL. 8643 FOL. 236

WILLIAM GEORGE STINTON of Leopold Nurseryman is the proprietor of an -- estate in fee simple subject to the encumbrances notified hereunder in - -- ALL THAT piece of land coloured on the map hereon being Lot 1 on Plan of - Subdivision No.74593 Parish of Moolap County of Grant - - - - - - - - - -

Issued under Regulation 12 on the approval of the above Plan of Subdivision

OFFICE OF TITLES VICTORIA

Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

As to any land coloured blue--

ANY EASEMENTS implied under Section 98 of the Transfer of Land Act - - - - - - - - -

As to the whole of the land--

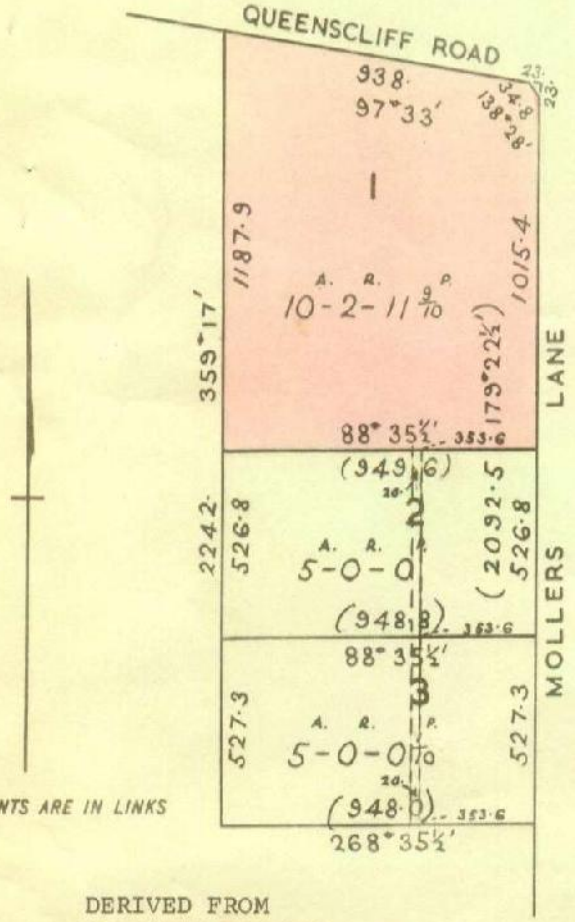
MORTGAGES C.240812 and C.256179 -

THE ABOVE MGE C240812 IS DISCHARGED 16 NOV 1966

OFFICE OF TITLES D.S. VICTORIA

C256179 The above mortgage is discharged as to part being the within Land 23 NOV 1966

OFFICE OF TITLES T.K.J. VICTORIA



MEASUREMENTS ARE IN LINKS

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WILLIAM GEORGE STINTON of Leopold Nurseryman ARCHIBALD RUSSELL CUTHBERTSON of 7 South Valley Road Highton Auctioneer HARRY BAKER of 20 Daisy Street Newtown Geelong Manager and ALBERT BELLAMY BELL of One Layton Crescent Newtown Geelong Director are now proprietors as TENANTS IN COMMON IN EQUAL SHARES
Registered 23rd November 1966
No C645955

OFFICE OF TITLES T.E.J. VICTORIA

TRANSFER AS TO PART No. F531645
registered 22ND November 1974
CANCELLED AS TO PART
See Vol. 9069 Fol. 467

OFFICE OF TITLES D.A. VICTORIA

TRANSFER as to the interest of
Howard John Turner
No G568382 registered 28th March 1977
CANCELLED as to the said interest
See Vol. 9208 Fol. 879

OFFICE OF TITLES C.H.S. VICTORIA

~~MORTGAGE~~ to ETHEL ANNIE WEBB
Registered 23rd November 1966
No C645956
DISCHARGED 12 FEB 1973

OFFICE OF TITLES N.W.O. VICTORIA

OFFICE OF TITLES T.E.J. VICTORIA

~~CANCELLED See Vol. Fol.~~
~~TRANSFER AS TO BALANCE No.~~

HOWARD JOHN TURNER of 48 The Terrace Ocean Grove Gentleman and WALTER HAROLD BURTON of 8 Melview Drive North Ringwood Manager are now proprietors as TENANTS IN COMMON IN EQUAL SHARES
Registered 12th February 1973
No.E698365

OFFICE OF TITLES N.W.O. VICTORIA

TRANSFER AS TO BALANCE No. G647896
registered 1st June 1977
CANCELLED See Vol. 9225 Fol. 576

OFFICE OF TITLES C.H.S. VICTORIA

CANCELLED

~~MORTGAGE~~ to JOHN WELFORD STUBBS and NEIL LINDSAY DAVIDSON
Registered 12th February 1973
No.E698366

CHARGED AS TO THE LAND TRANSFER No. G653714 DATED 22 NOVEMBER 1976

OFFICE OF TITLES D.A. VICTORIA

OFFICE OF TITLES N.W.O. VICTORIA

Country Roads Board
has pursuant to section 57 of Transfer of Land Act served a Notification relating to the compulsory acquisition of land comprised herein.
Dated 16 NOV 1973
Entered 9 JAN 1974
No. F 89751
FILED WITH ADVICE "E"
(Plan with letter)

SEE F 89751

OFFICE OF TITLES P.O. VICTORIA

OFFICE OF TITLES A.D. VICTORIA

T08643-236-1-7

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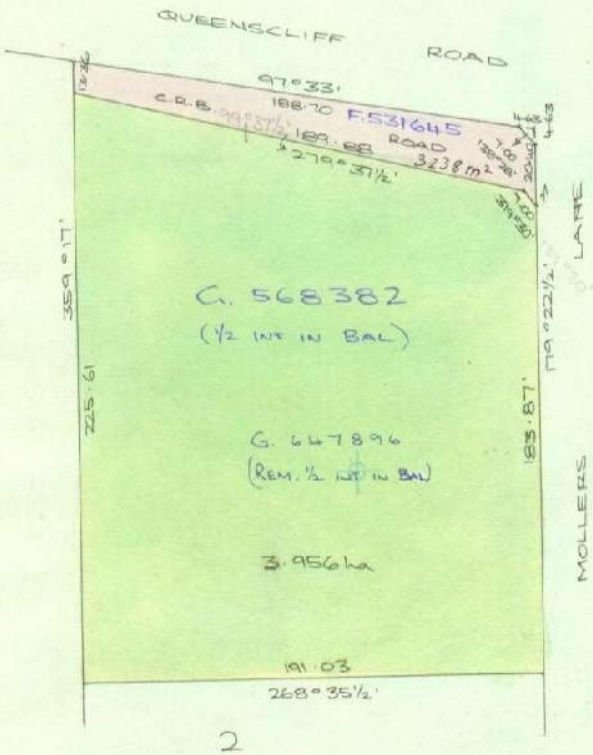
SCALE 1 : 2500 ~~1 cm = 1 inch~~

Volume 8643 Folio 236



2.2793
.3238
3.9555

LENGTHS ARE IN METRES

SK BW 4/2/15

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Natural Resources and Environment

AGRICULTURE • RESOURCE • CONSERVATION • LAND MANAGEMENT

INTENTIONALLY

BLANK

T08643-236-2-5

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Volume 08643 Folio 237
Folio Creation: Created as paper folio continued as computer folio
Parent title Volume 02770 Folio 982

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
17/09/2004	17/09/2004	AD122887W	Y

CAVEAT
CAVEAT AD122887W 17/09/2004
Caveator
ROBERT LIEFVOORT
Capacity PURCHASER/FEE SIMPLE
Lodged by
WIGHTONS LAWYERS
Notices to
ROBERT LIEFVOORT of UNIT 2, 23 PAULSON STREET CORIO VIC 3214

01/04/2005	01/04/2005	AD531670S	Y

WITHDRAWAL OF CAVEAT
CAVEAT AD122887W REMOVED

18/04/2005	18/04/2005	AD564001D	Y

CAVEAT
CAVEAT AD564001D 18/04/2005
Caveator
ELIZABETH FRANCIENA MARSLAND
Capacity PURCHASER/FEE SIMPLE
Lodged by
RISTEVSKI LAWYERS
Notices to
RISTEVSKI LAWYERS of 1 HIGH STREET DRYSDALE VIC 3222

09/08/2005	09/08/2005	AD800401Y	Y

TRANSMISSION APPLICATION
FROM:
HELENA ARNOLDA VAN DE LIEFVOORT
TO:
ROBERT ARNOLD LIEFVOORT

RESULTING PROPRIETORSHIP:
Estate Fee Simple
Sole Proprietor
ROBERT ARNOLD LIEFVOORT of UNIT 2, 23 PAULSON STREET CORIO VIC 3214 Legal Personal Representative(s) of HELENA ARNOLDA VAN DE LIEFVOORT who died on 05/05/2005
AD800401Y 09/08/2005

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12/09/2005 14/09/2005 AD870017E Y

TRANSFER OF LAND BY ENDORSEMENT
FROM:
ROBERT ARNOLD LIEFVOORT
TO:
ELIZABETH FRANCIENA MARSLAND

RESULTING PROPRIETORSHIP:
Estate Fee Simple
Sole Proprietor
ELIZABETH FRANCIENA MARSLAND of 30 MOLLERS LANE LEOPOLD VIC 3224
AD870017E 12/09/2005
AND LAPSING OF CAVEAT AD564001D

12/09/2005 14/09/2005 AD870018C Y

MORTGAGE OF LAND
MORTGAGE AD870018C 12/09/2005
NATIONAL AUSTRALIA BANK LIMITED

21/08/2014 21/08/2014 AL305769Q Y

CAVEAT
CAVEAT AL305769Q 21/08/2014
Caveator
MOLLERS LANE HOLDINGS PTY LTD
Grounds of Claim
PURCHASERS' CONTRACT WITH THE FOLLOWING PARTIES AND DATE.
Parties
THE REGISTERED PROPRIETOR(S)
Date
18/07/2014
Estate or Interest
FREEHOLD ESTATE
Prohibition
ABSOLUTELY
Lodged by
CHOICE CONVEYANCING
Notices to
CHOICE CONVEYANCING of 72A LITTLE RYRIE STREET GEELONG VIC 3220

22/10/2014 22/10/2014 AL437601T Y

DISCHARGE OF MORTGAGE
AFFECTED ENCUMBRANCE(S) AND REMOVED MORTGAGE(S)
MORTGAGE AD870018C

22/10/2014 22/10/2014 AL437602R Y

TRANSFER OF LAND BY ENDORSEMENT AND REMOVAL OF CAVEAT AL305769Q
FROM:
ELIZABETH FRANCIENA MARSLAND
TO:
MOLLERS LANE HOLDINGS PTY LTD

RESULTING PROPRIETORSHIP:
Estate Fee Simple
Sole Proprietor
MOLLERS LANE HOLDINGS PTY LTD of 228 MOORABOOL STREET GEELONG VIC 3220
AL437602R 22/10/2014
AND LAPSING OF CAVEAT AL305769Q

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STATEMENT END

VOTS Snapshot

Volume 08643 Folio 237
124011767284B
Produced 17/09/2004 11:25 am

LAND DESCRIPTION

Lot 2 on Plan of Subdivision 074593.
PARENT TITLE Volume 02770 Folio 982
Created by instrument LP074593 27/10/1966

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
HELENA ARNOLDA VAN DE LIEFVOORT of 30 MOLLERS LA LEOPOLD 3224
V124530T 02/12/1997

ENCUMBRANCES, CAVEATS AND NOTICES

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 LP074593 FOR FURTHER DETAILS AND BOUNDARIES

Paper Title Images

8643/237 - Version 0, Date 19/01/2000

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ORIGINAL

NOT TO BE TAKEN FROM THE OFFICE OF TITLES

VICTORIA

REGISTER BOOK VOL. 8643 FOL. 237

INDEX PLAN No. 38

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

VOL. 8643 FOL. 237

WILLIAM GEORGE STINTON of Leopold Nurseryman is the proprietor of an -- estate in fee simple subject to the encumbrances notified hereunder in - -- ALL THAT piece of land coloured on the map hereon being Lot 2 on Plan of - Subdivision No.74593 Parish of Moolap County of Grant - - - - - - - - - -

Issued under Regulation 12 on the approval of the above Plan of Subdivision

OFFICE OF TITLES VICTORIA

Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

As to any land coloured blue--

ANY EASEMENTS implied under Section 98 of the Transfer of Land Act - - - - - - - - --

As to the whole of the land--

MORTGAGES C.240812 and C.256179 -

THE ABOVE M.G.E C240812 IS DISCHARGED

16 NOV 1966

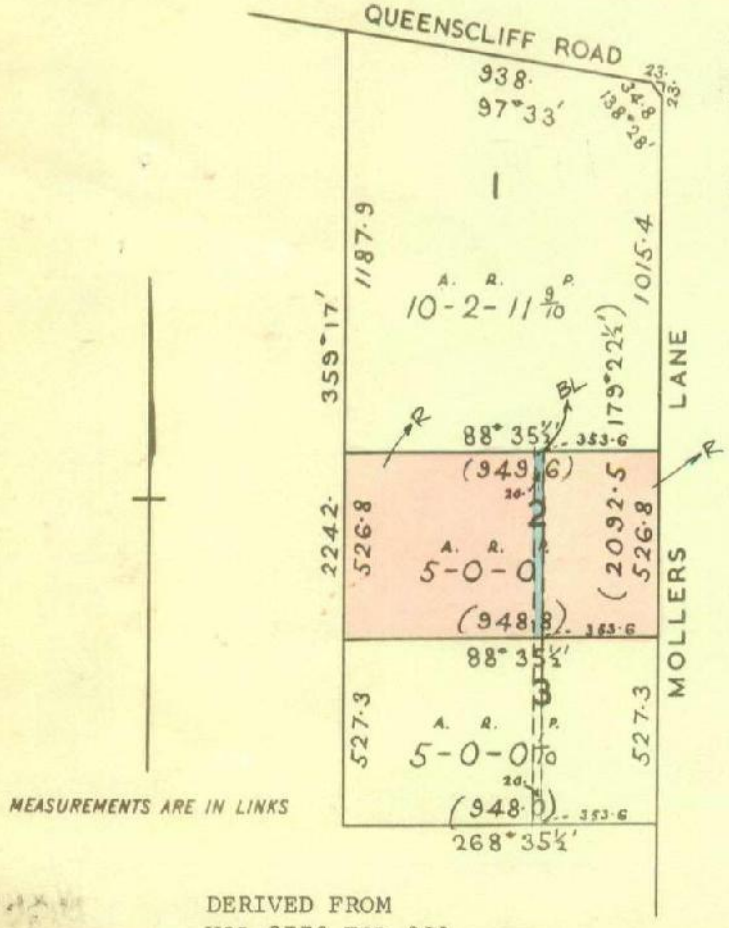
OFFICE OF TITLES D. S. VICTORIA

C256179

The above mortgage is discharged as to part being the within Land

23 NOV 1966

OFFICE OF TITLES T.E.J. VICTORIA



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HENRICUS VAN DE LIEFVOORT Bricklayer
and HELENA ARNOLDA VAN DE LIEFVOORT
Married Woman both of Mollers Lane
Leopold are now JOINT PROPRIETORS
Registered 23rd November 1966
No C645954

OFFICE OF TITLES T.E.J. VICTORIA

MORTGAGE to CHARLES VICKERS-WILLIS
and ROY LINDSAY BOCKHOLT
Registered 21st February 1968
No.D9090

DISCHARGED 17 MAR 1970

OFFICE OF TITLES T.E.J. VICTORIA

OFFICE OF TITLES D.S. VICTORIA

SURVIVING PROPRIETOR
HELENA ARNOLDA VAN DE LIEFVOORT
30 MOLLERS LA. LEOPOLD 3224

V124530T 02/12/97

OFFICE OF TITLES B.J. VICTORIA

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T08643-237-1-3

V.8643 F.237

Imaged Document Cover Sheet

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Document Type	**plan**
Document Identification	**LP074593**
Number of Pages (excluding this cover sheet)	**1**
Document Assembled	**26/07/2016 15:25**

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PLAN OF SUBDIVISION

LP74593
EDITION 1
APPROVED 28/ 9 / 66

PART OF CROWN ALLOTMENT 17 BLOCK I

PARISH OF MOOLAP

COUNTY OF GRANT

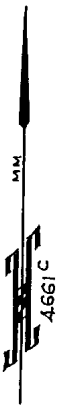
VOL. 2770 FOL. 982

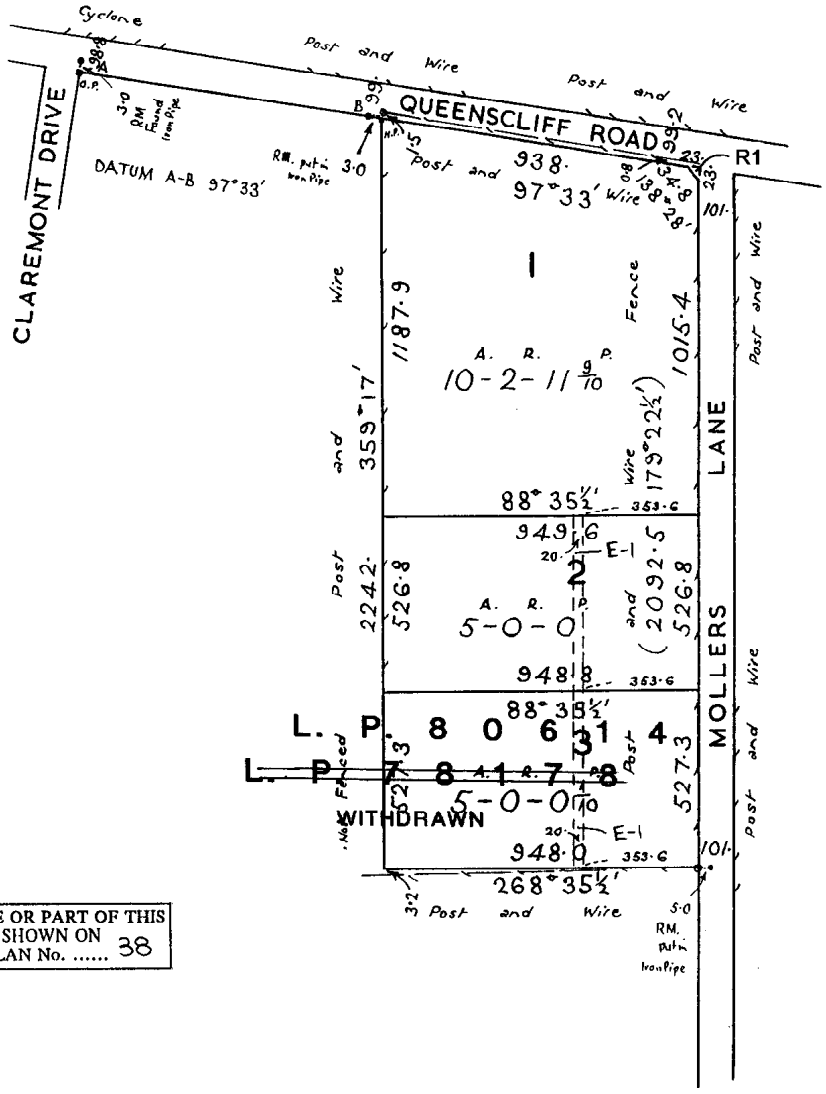
Measurements are in Links
Conversion Factor
LINKS X 0.201168 = METRES

APPROPRIATIONS

The Land coloured BROWN is appropriated or set apart for Easement of Way and Drainage.
" " " BLUE " " " " " " " " " Drainage

COLOUR CONVERSION
E-1 = BLUE
R1 = BROWN





THE WHOLE OR PART OF THIS PLAN IS SHOWN ON INDEX PLAN No. 38

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 08643 FOLIO 237

Security no : 124061450026W
Produced 26/07/2016 03:20 pm

LAND DESCRIPTION

Lot 2 on Plan of Subdivision 074593.
PARENT TITLE Volume 02770 Folio 982
Created by instrument LP074593 27/10/1966

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
MOLLERS LANE HOLDINGS PTY LTD of 228 MOORABOOL STREET GEELONG VIC 3220
AL437602R 22/10/2014

ENCUMBRANCES, CAVEATS AND NOTICES

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 LP074593 FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

Street Address: 22-30 MOLLERS LANE LEOPOLD VIC 3224

DOCUMENT END

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Volume 08643 Folio 238
Folio Creation: Details Unknown
Parent title Volume 02770 Folio 982

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Paper Title Images

8643/238 - Version 0, Date 19/01/2000

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REGISTER BOOK

VOL. 8643 FOL. 238

VICTORIA

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

PARCELS INDEX

SECONDARY STORAGE

VOL. 8643 FOL. 238

WILLIAM GEORGE STINTON of Leopold Nurseryman is the proprietor of an -- estate in fee simple subject to the encumbrances notified hereunder in - -- ALL THAT piece of land coloured on the map hereon being Lot 3 on Plan of - Subdivision No.74593 Parish of Moolap County of Grant - - - - - - - - - -

Issued under Regulation 12 on the approval of the above Plan of Subdivision

OFFICE OF TITLES VICTORIA

D.F. Jones

Assistant Registrar of Titles

THE WHOLE/OR PART OF THE WI... LAND HAS BEEN SUBDIVIDED. SEE Unregistered Plan 78171 (Witnessed 31-10-67) 80614 Misc. Plan L.P. 80614

ENCUMBRANCES REFERRED TO

As to any land coloured blue--

ANY EASEMENTS implied under Section 98 of the Transfer of Land Act - - - - - - - - -

As to the whole of the land--

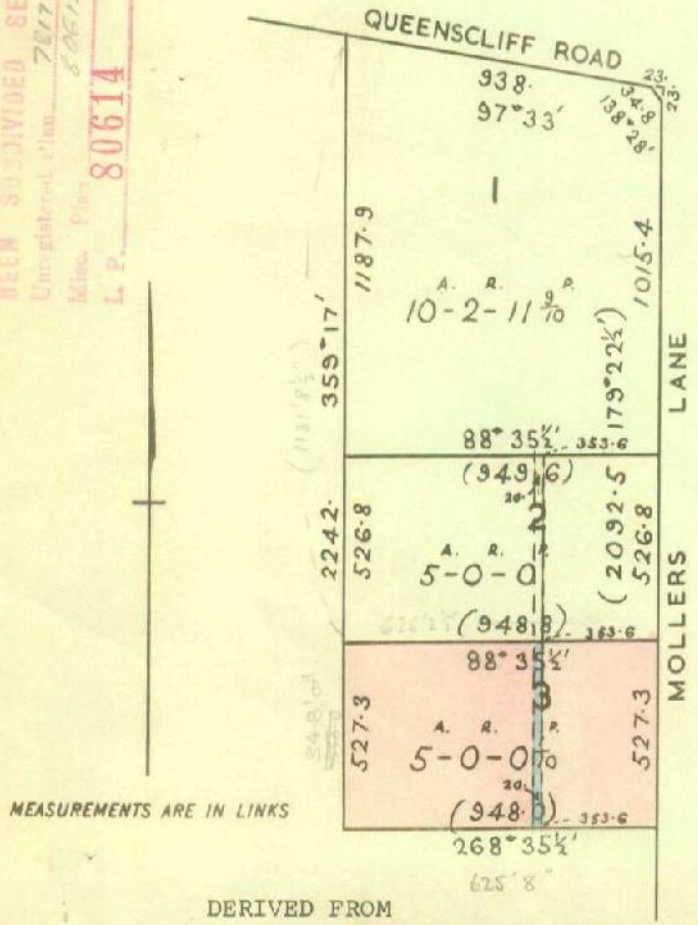
MORTGAGES C.240812 and C.256179 -

THE ABOVE MGE C240812 IS DISCHARGED 16 NOV 1966

OFFICE OF TITLES D. S. VICTORIA

C256179 THE ABOVE MORTGAGE IS DISCHARGED -7 FEB 1968

OFFICE OF TITLES C.J.S. VICTORIA



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SEE SKETCH ATTACHED TO C/TV. 8320 F. 125

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CANCELLED
Pursuant to Regulation 12 and Titles
issued as set out hereunder on 31st MAY 1968
LOTS ONE AND 2 IN VOL 8724 FOL 042
AND
VOL 8724 FOL 043

LP 80614

OFFICE OF TITLES J.V.F. VICTORIA

CANCELLED

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Volume 08724 Folio 043
Folio Creation: Details Unknown
Parent titles :
Volume 08091 Folio 900
Volume 08320 Folio 425
Volume 08643 Folio 238

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Paper Title Images

8724/043 - Version 0, Date 02/02/2000

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REGISTER BOOK

VOL. 8724 FOL. 043

PARCELS INDEX

SECONDARY STORAGE

VICTORIA

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

VOL. 8724 FOL. 043

WILLIAM GEORGE STINTON of Leopold Nurseryman is the proprietor of an --- estate in fee simple subject to the encumbrances notified hereunder in - --- ALL THAT piece of land coloured on the map on the sheet annexed hereto being Lot 2 on Plan of Subdivision No.80614 Parish of Moolap County of Grant --

Issued under Regulation 12 on the approval of the above Plan of Subdivision-

L. G. McDavitt

OFFICE OF TITLES VICTORIA

Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

As to any land coloured blue, green or purple - - - - - - -

ANY EASEMENTS implied under Section 98 -- of the Transfer of Land Act - - - - - - -

As to any land coloured green-

THE DRAINAGE EASEMENT created by - - - - -- Instrument A.380964 - - - - - - - - - - -

As to any land coloured purple-

THE DRAINAGE EASEMENT reserved by - - - - Transfer A.586833 - - - - - - - - - - - -

As to parts of the land-

MORTGAGES C.240813 and C.240814 -

MGE C240813 IS DISCHARGED 18 APR 1968

OFFICE OF TITLES D. S. VICTORIA

MGE C240814 IS Discharged as to part being the within Land 18 APR 1968

OFFICE OF TITLES D. S. VICTORIA

THE WHOLE/OR PART OF THE WITHIN LAND HAS BEEN SUBDIVIDED SEE Unregistered Plan 1/S 113935 Misc. Plan L. P. 113935

DERIVED FROM
VOL.8643 FOL.238
" 8320 " 425
" 8091 " 900
31/5/'68.

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DIEMOULDERS PROPRIETARY LIMITED of
Melbourne Road North Geelong
is now the proprietor
Registered 18th April 1968
No.D54765

OFFICE OF TITLES D.S. VICTORIA

~~MORTGAGE~~ DISCHARGED 20 MAR 1974 ..to CHARLES
VICKERS-WILLIS and ROY LINDSAY
BOCKHOLT
Registered 18th April 1968
No.D54766

OFFICE OF TITLES P.H. VICTORIA

OFFICE OF TITLES D.S. VICTORIA

~~MORTGAGE~~ DISCHARGED 18 APR 1973 to WILLIAM GEORGE
STIMPSON
Registered 18th April 1968
No.D54767

OFFICE OF TITLES A.S. VICTORIA

OFFICE OF TITLES D.S. VICTORIA

CANCELLED
Pursuant to Regulation 12 and Titles
issued as set out hereunder on 24th February 1975

Lots One and 2 in Vol 9072 Fol 030
to Vol 9072 Fol 031

LP 113935

OFFICE OF TITLES A.S. VICTORIA

CANCELLED

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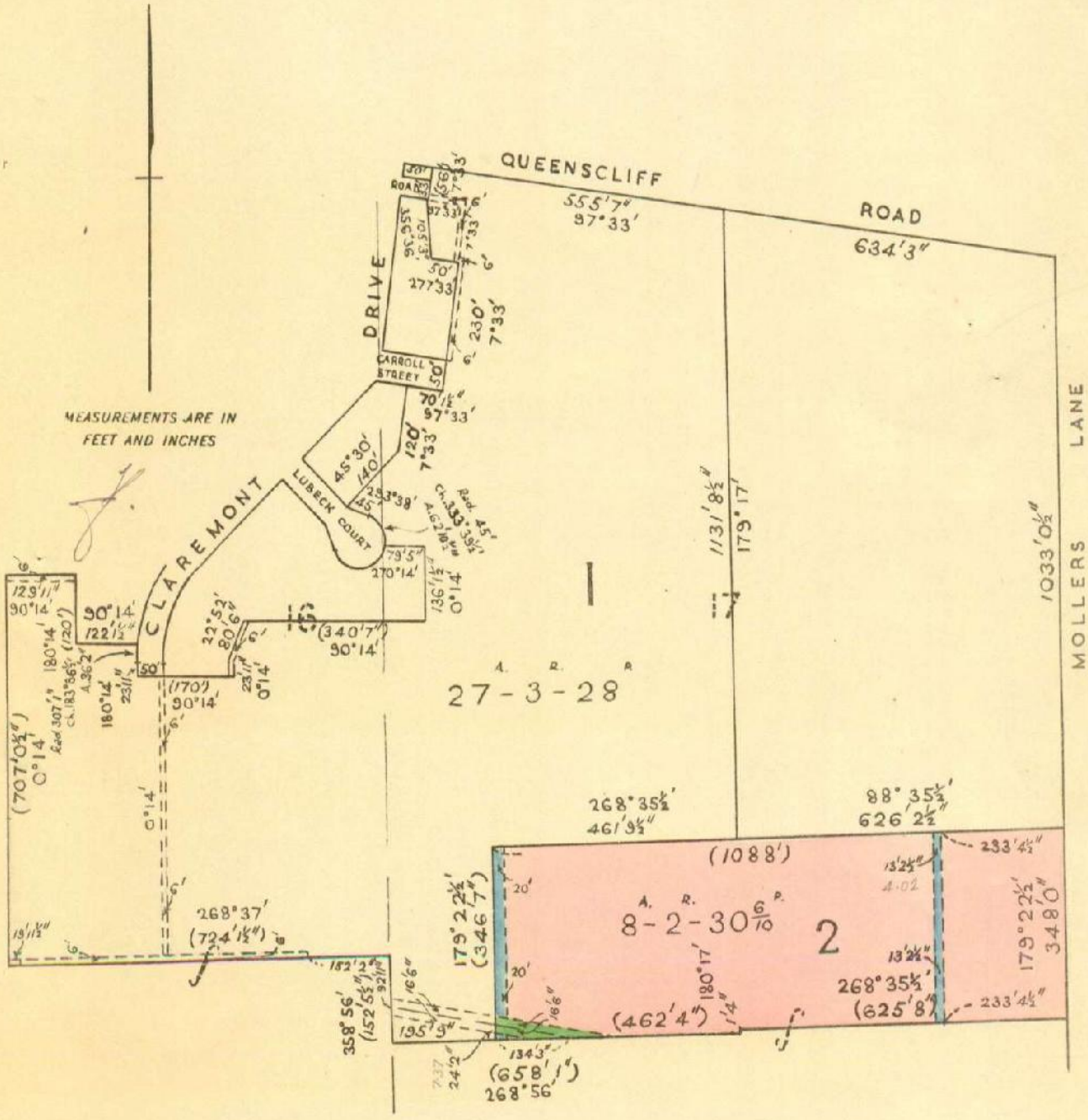
ANNEXED SHEET REFERRED TO IN
CERTIFICATE OF TITLE VOL 8724 FOL. 043

ASSISTANT REGISTRAR OF TITLES



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Natural Resources and Environment
AGRICULTURE • RESOURCE CONSERVATION • LAND MANAGEMENT

INTENTIONALLY BLANK

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Produced 26/07/2016 03:46 PM

Volume 09072 Folio 030
Folio Creation: Created as paper folio continued as computer folio
Parent title Volume 08724 Folio 043

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
11/08/2015	11/08/2015	AM097921G	Y

CAVEAT
CAVEAT AM097921G 11/08/2015
Caveator
TELSTRA CORPORATION LTD
Grounds of Claim
LEASE WITH THE FOLLOWING PARTIES AND DATE.
Parties
THE REGISTERED PROPRIETOR(S)
Date
01/03/2015
Estate or Interest
LEASEHOLD ESTATE
Prohibition
ANY INSTRUMENT THAT AFFECTS MY/OUR INTEREST
Lodged by
AUSTRALIAN GOVERNMENT SOLICITOR
Notices to
AUSTRALIAN GOVERNMENT SOLICITOR of LEVEL 21 200 QUEEN STREET MELBOURNE VIC 3000

STATEMENT END

VOTS Snapshot

VOLUME 09072 FOLIO 030
124056433667L
Produced 11/08/2015 11:38 am

LAND DESCRIPTION

Lot 1 on Plan of Subdivision 113935.
PARENT TITLE Volume 08724 Folio 043
Created by instrument LP113935 24/02/1975

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REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
LUTHERAN CHURCH OF AUSTRALIA VICTORIAN DISTRICT of 52 CHRISTOWEL STREET CAMBERWELL
F586922 29/01/1975

ENCUMBRANCES, CAVEATS AND NOTICES

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 LP113935 FOR FURTHER DETAILS AND BOUNDARIES

Paper Title Images

9072/030 - Version 0, Date 18/08/1999

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ORIGINAL

NOT TO BE TAKEN FROM THE OFFICE OF TITLES

VICTORIA

REGISTER BOOK

VOL. 9072 FOL. 030

INDEX PLAN No. 38

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

DIEMOULDERS PROPRIETARY LIMITED of Bellarine Highway Leopold is the proprietor of an estate in fee simple subject to the - - - - encumbrances notified hereunder in ALL THAT piece of land - - - - coloured on the map hereon being Lot 1 on Plan of Subdivision - - No.113935 Parish of Moolap County of Grant - - - - - -

Issued under Regulation 12 on the approval of the -- above Plan of Subdivision-

Assistant Registrar of Titles

OFFICE OF TITLES VICTORIA

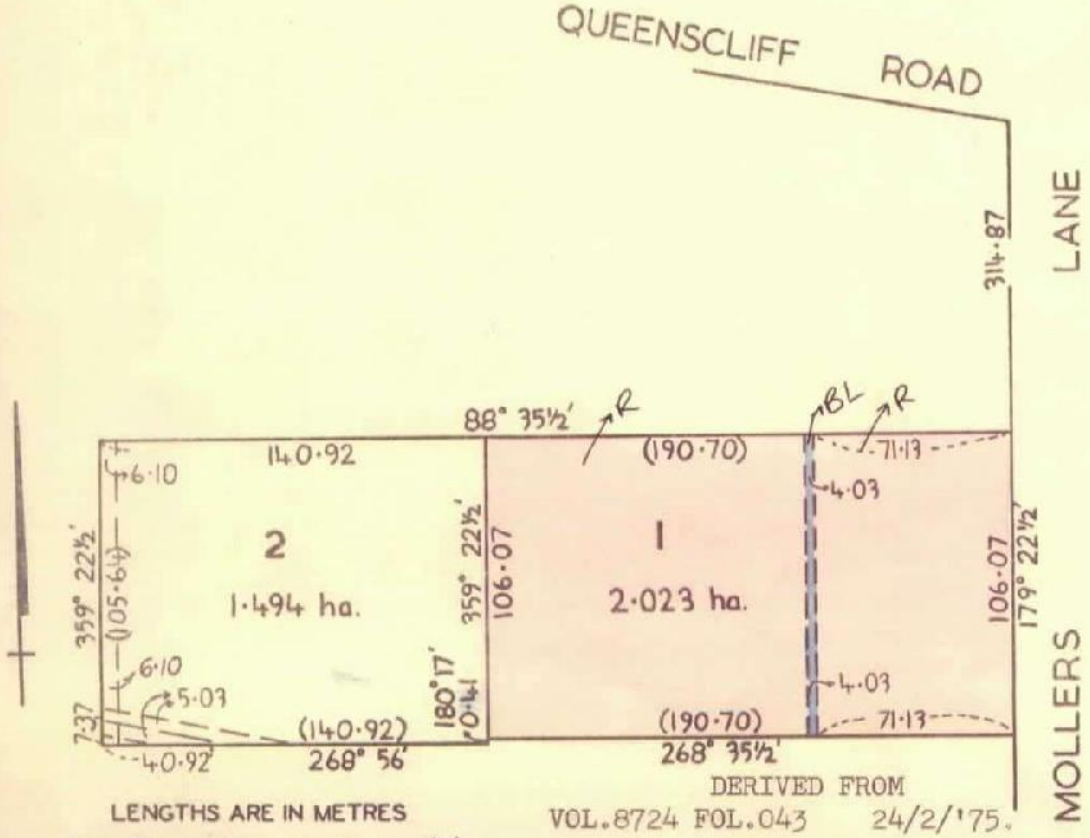
ENCUMBRANCES REFERRED TO

As to any land coloured blue or green

THE EASEMENTS (if any) existing over the same by virtue - of Section 98 of the Transfer of Land Act --

As to any land coloured green

THE DRAINAGE EASEMENT created by Instrument A.380964



LENGTHS ARE IN METRES

AREAS (IF SHOWN) ARE IN HECTARES (ha) OR IN SQUARE METRES (m²)

DERIVED FROM VOL.8724 FOL.043 24/2/'75.

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FULLY CONVERTED TITLE

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VOL. 9072 FOL. 030

LUTHERAN CHURCH OF AUSTRALIA VICTORIAN DISTRICT of 52 Christowel Street Camberwell is now the proprietor

Registered 29th January 1975

No.F586922

OFFICE OF TITLES I.R.F. VICTORIA

Delivered on-line by LANDATA®

FULLY CONVERTED TITLE
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T09072-030-1-1

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Document Type	**plan**
Document Identification	**LP113935**
Number of Pages (excluding this cover sheet)	**2**
Document Assembled	**26/07/2016 15:47**

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113935

LP113935
EDITION 2
APPROVED 26/11/74

PLAN OF SUBDIVISION OF PART OF CROWN PORTION 17 BLOCK 1

PARISH: MOOLAP
COUNTY: GRANT

SCALE OF METRES 60 40 20 0 20 40 80

LENGTHS ARE IN METRES

V. 8724 F. 043

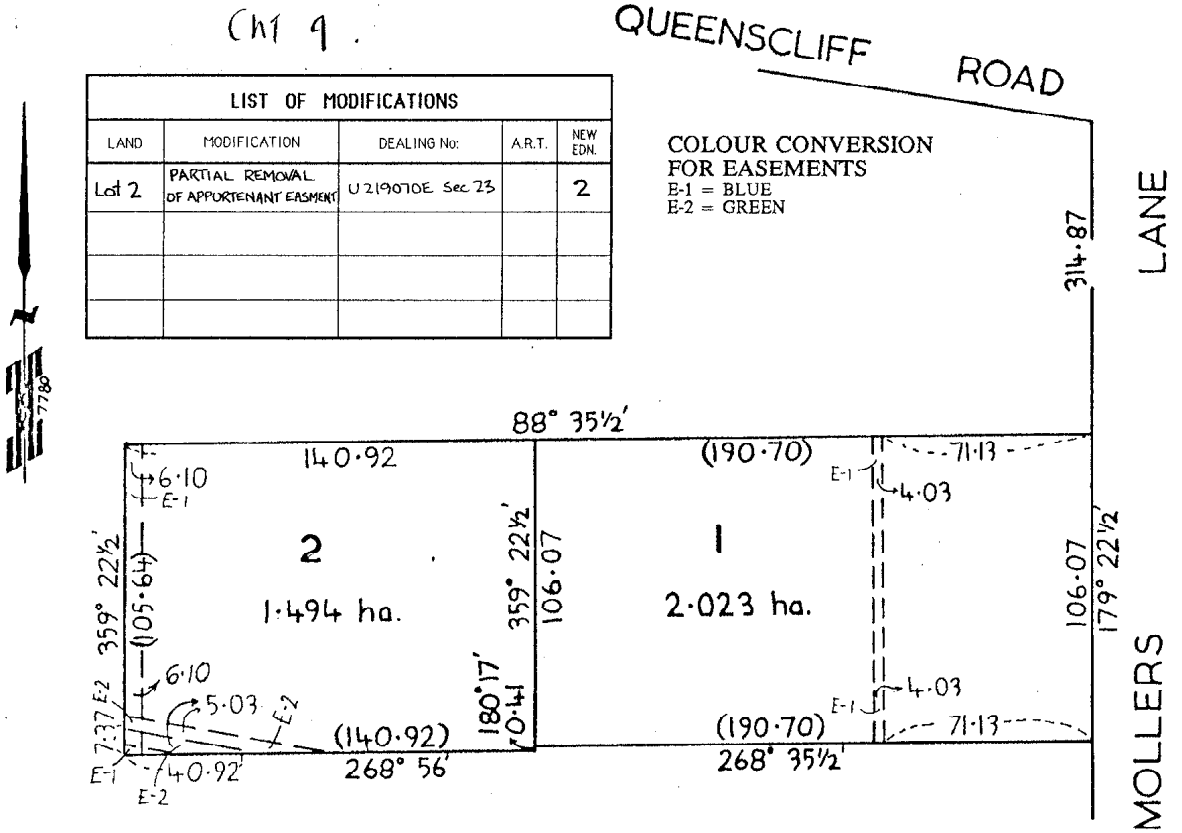
APPROPRIATIONS
BLUE - DRAINAGE
GREEN - DRAINAGE

NOTATIONS
As to Lot 2 - Appurtenant right of Carriageway and Easements of Water Supply and Transmission of Electricity over Lots 1 ~~and 64~~ on PS 337089B vide H442692.
The above appurtenant right over Lot 64 on PS337089B has been removed vide U219070E Sec 23.

Ch 1 9.

LIST OF MODIFICATIONS

LAND	MODIFICATION	DEALING No:	A.R.T.	NEW EDN.
Lot 2	PARTIAL REMOVAL OF APPURTENANT EASEMENT	U219070E Sec 23		2



CONSENT OF COUNCIL	SEAL	SURVEYORS CERTIFICATION
THIS PROPOSED SUBDIVISION IS EXEMPTED FROM SUBDIVISION (3) OF DIVISION 9 OF PART XIX OF THE LOCAL GOVERNMENT ACT 1958 IN WITNESS WHEREOF THE SEAL OF THE COUNCIL OF THE SHIRE OF BELLARINE was hereto affixed this second day of October 1974 in the presence of G. R. Shenn { ~~Mayor~~ President W. R. Atkins Councillor ~~Town Clerk~~ Shire Secretary	FOR APPROPRIATIONS, ETC, SEE BACK HEREOF	I certify that this plan has been made by T. R. WARREN and that it accords with Title and is mathematically correct. 24th day of JUNE 1974 T. R. Warren Licensed Surveyor.

A. C. THOMS & PARTNERS • LICENSED SURVEYORS • 115 YARRA STREET • GEELONG • PHONE 9 3147 • REF No. 7780

113935.

Delivered by LANDATA®. Land Victoria timestamp 26/07/2016 15:46 Page 2 of 2

SUBDIVISIONAL
CERTIFICATE OF TITLE V. 8724 F. 043

FOR TITLE REFERENCES TO LOTS SEE PARCELS INDEX

LODGED BY WIGHTON & McDONALD

DEALING No. ..... DATE 24 / 10 / 74

DECLARED BY T. R. WARREN

ON 24 / 6 / 74

COUNCIL SHIRE OF BELLARINE

DATE OF CONSENT 2 / 10 / 74

PLAN MAY BE LODGED ... / ... / ...

PLAN APPROVED. DATE 26 / 11 / 74 TIME 8:55 a.m. ~~p.m.~~

THE LAND COLOURED BLUE & GREEN
APPROPRIATED OR SET APART
FOR EASEMENTS OF DRAINAGE.

PHOTOGRAPHED AT CENTRAL PLAN OFFICE

SIZE ..... DATE .....

COLOURED A.B ..... CHECKED .....

LP 113935
BACK OF SHEET 1

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 09072 FOLIO 030

Security no : 124061450838P
Produced 26/07/2016 03:44 pm

LAND DESCRIPTION

Lot 1 on Plan of Subdivision 113935.
PARENT TITLE Volume 08724 Folio 043
Created by instrument LP113935 24/02/1975

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
LUTHERAN CHURCH OF AUSTRALIA VICTORIAN DISTRICT of 52 CHRISTOWEL STREET CAMBERWELL
F586922 29/01/1975

ENCUMBRANCES, CAVEATS AND NOTICES

CAVEAT AM097921G 11/08/2015
Caveator
TELSTRA CORPORATION LTD
Grounds of Claim
LEASE WITH THE FOLLOWING PARTIES AND DATE.
Parties
THE REGISTERED PROPRIETOR(S)
Date
01/03/2015
Estate or Interest
LEASEHOLD ESTATE
Prohibition
ANY INSTRUMENT THAT AFFECTS MY/OUR INTEREST
Lodged by
AUSTRALIAN GOVERNMENT SOLICITOR
Notices to
AUSTRALIAN GOVERNMENT SOLICITOR of LEVEL 21 200 QUEEN STREET MELBOURNE VIC 3000

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DIAGRAM LOCATION

SEE LP113935 FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

DOCUMENT END

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 09208 FOLIO 879

Security no : 124061428554L
Produced 25/07/2016 01:44 pm

LAND DESCRIPTION

Lot 1 on Title Plan 167626J (formerly known as part of Lot 1 on Plan of Subdivision 074593).
PARENT TITLE Volume 08643 Folio 236
Created by instrument G568382 28/03/1977

REGISTERED PROPRIETOR

Estate Fee Simple
As to 1 of a total of 2 equal undivided shares
Sole Proprietor
ALLCARD PTY LTD of 48 THE PARADE OCEAN GROVE
G568382 28/03/1977

ENCUMBRANCES, CAVEATS AND NOTICES

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 set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE TP167626J FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

OTHER TITLES WITH INTERESTS AFFECTING THE FEE SIMPLE IN THIS LAND
9225/576

Street Address: 2-20 MOLLERS LANE LEOPOLD VIC 3224

DOCUMENT END

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Volume 09208 Folio 879
Folio Creation: Created as paper folio continued as computer folio
Parent title Volume 08643 Folio 236

THE IMAGE OF THE FOLIO CEASED TO BE THE DIAGRAM LOCATION ON 17/08/2006 06:48 PM

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
05/12/2002	05/12/2002	AB738918V	Y

MORTGAGE OF LAND
MORTGAGE AB738918V 05/12/2002
JOSEPH GUSTAV BLAHOVEC

10/09/2004	04/10/2004	AD106948U	Y

RECTIFICATION AMEND INTEREST ON A FOLIO

RESULTING PROPRIETORSHIP:
Estate Fee Simple
As to 1 of a total of 2 equal undivided shares
Sole Proprietor
ALLCARD PTY. LTD. of 48 THE PARADE OCEAN GROVE
G568382 28/03/1977

29/01/2010	29/01/2010	AH004082S	Y

DISCHARGE OF MORTGAGE
AFFECTED ENCUMBRANCE(S) AND REMOVED MORTGAGE(S)
MORTGAGE AB738918V

STATEMENT END

VOTS Snapshot

Volume 09208 Folio 879
124004088034N
Produced 05/12/2002 10:43 am

LAND DESCRIPTION

Lot 1 on Title Plan 167626J (formerly known as part of Lot 1 on Plan of Subdivision 074593).

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PARENT TITLE Volume 08643 Folio 236
Created by instrument G568382 28/03/1977

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
ALLCARD PTY. LTD. of 48 THE PARADE OCEAN GROVE
G568382 28/03/1977

ENCUMBRANCES, CAVEATS AND NOTICES

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 set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE DIAGRAM ON IMAGED FOLIO VOLUME 9208 FOLIO 879 FOR FURTHER DETAILS AND BOUNDARIES

Paper Title Images

9208/879 - Version 0, Date 14/09/1999

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G 568382

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VICTORIA

REGISTER BOOK

VOL. 9208 FOL. 879

INDEX PLAN No. 38

PARCEL No. 509 INT

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

ALLCARD PTY. LTD. of 48 The Parade Ocean Grove is now the proprietor of an - - - estate in fee simple subject to the encumbrances notified hereunder in One equal undivided half part or share of ALL THAT piece of land delineated and - - - - - - coloured purple on the map hereon being part of Lot One on Plan of - - - - - - - - Subdivision No.74593 Parish of Moolap County of Grant - - - - - - - - - - - - - -

FOL.

VOL.

DATED the 28th day of March 1977

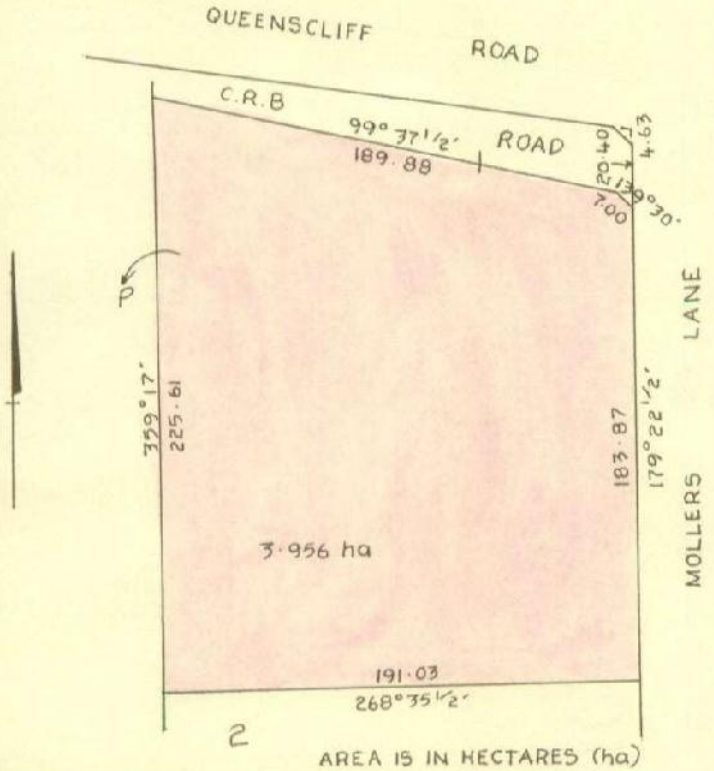
Assistant Registrar of Titles

OFFICE OF TITLES VICTORIA

ENCUMBRANCES REFERRED TO

MORTGAGE E698366 - - - - - -

THE ABOVE MORTGAGE IS DISCHARGED 15 MAY 1984



MEASUREMENTS ARE IN METRES

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G568382

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VOL. 9208 FOL. 879 INSTRUMENT APPLICATION -PL

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T09208-879-1-7

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Document Type	**plan**
Document Identification	**TP167626J**
Number of Pages (excluding this cover sheet)	**1**
Document Assembled	**25/07/2016 13:52**

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TITLE PLAN

EDITION 1

TP 167626J

LOCATION OF LAND

Parish: MOOLAP
Township: -
Section: -
Crown Allotment: -
Crown Portion: -

Last Plan Reference: LP 74593
Derived From: VOL. 9225 FOL. 576 VOL. 9208 FOL. 879
Depth Limitation: NIL

Notations

ANY REFERENCE TO MAP IN THE TEXT MEANS THE DIAGRAM SHOWN ON THIS TITLE PLAN

Description of Land/Easement Information

THIS PLAN HAS BEEN PREPARED BY LAND REGISTRY, LAND VICTORIA FOR TITLE DIAGRAM PURPOSES

COMPILED: Date: 01/08/2006
VERIFIED: A. DALLAS
Assistant Registar of Titles

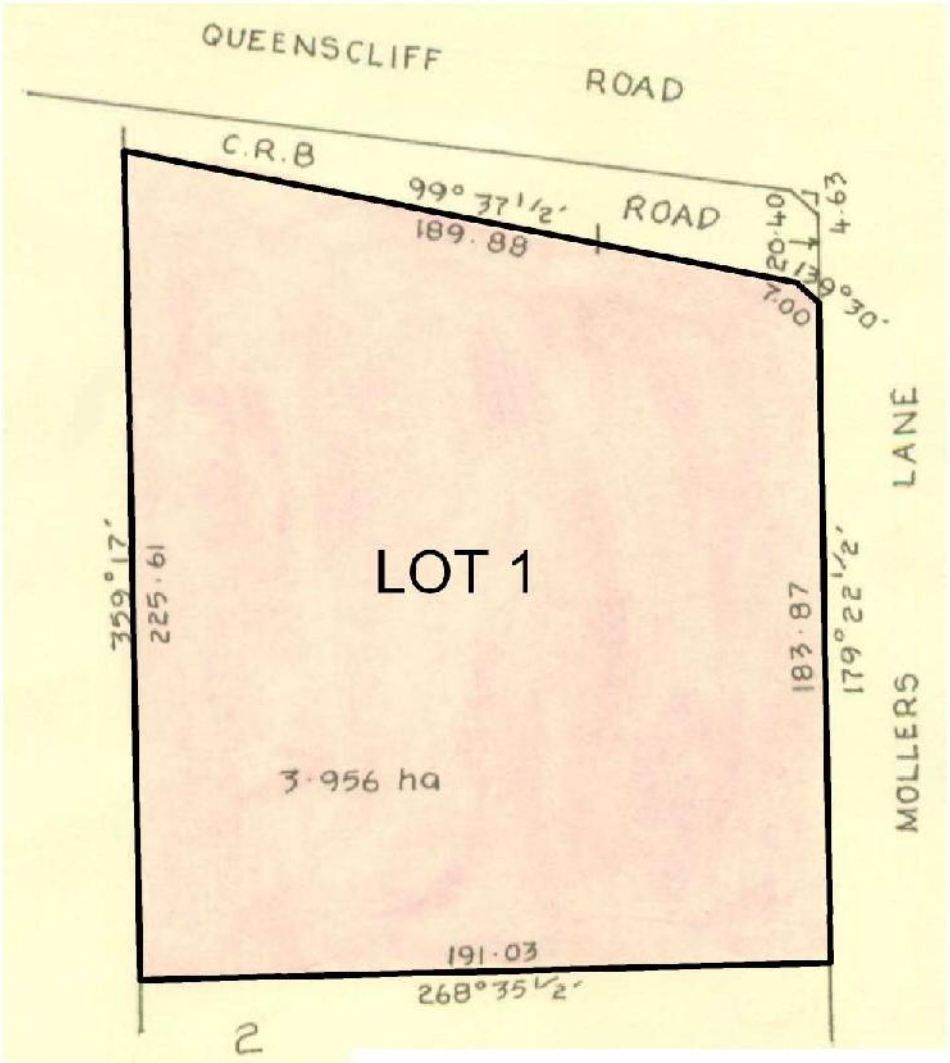

TABLE OF PARCEL IDENTIFIERS
WARNING: Where multiple parcels are referred to or shown on this Title Plan this does not imply separately disposable parcels under Section 8A of the Sale of Land Act 1962
LOT 1 = LOT 1 (PT) ON LP 74593

LENGTHS ARE IN METRES	Metres = 0.3048 Feet Metres = 0.201168 x Links	Sheet 1 of 1 Sheets

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 09225 FOLIO 576

Security no : 124061428555K
Produced 25/07/2016 01:44 pm

LAND DESCRIPTION

Lot 1 on Title Plan 167626J (formerly known as part of Lot 1 on Plan of Subdivision 074593).
PARENT TITLE Volume 08643 Folio 236
Created by instrument G647896 01/06/1977

REGISTERED PROPRIETOR

Estate Fee Simple
As to 1 of a total of 2 equal undivided shares
Sole Proprietor
ALLCARD PTY LTD of 48 THE PARADE, OCEAN GROVE
L036178H 15/05/1984

ENCUMBRANCES, CAVEATS AND NOTICES

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 set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE TP167626J FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

OTHER TITLES WITH INTERESTS AFFECTING THE FEE SIMPLE IN THIS LAND
9208/879

Street Address: 2-20 MOLLERS LANE LEOPOLD VIC 3224

DOCUMENT END

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Parent title Volume 08643 Folio 236

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STATEMENT END

Paper Title Images

9225/576 - Version 0, Date 10/09/1999

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G647896

ORIGINAL

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VICTORIA

REGISTER BOOK

VOL. 9225 FOL. 576

INDEX PLAN No. 38

PARCEL No. 509 INT.

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

COOLROOM AGENCIES PTY. LTD. of 267 Hawthorn Road Caulfield is now the - - - - - proprietor of an estate in fee simple subject to the encumbrances notified - - hereunder in One equal undivided half part or share of ALL THAT piece of land- delineated and coloured purple on the map hereon being part of Lot One on Plan of Subdivision No.74593 Parish of Moolap County of Grant - - - - - - - - - - - -

FOL.

VOL.

DATED the 1st day of June 1977

J.P. Brewer

Assistant Registrar of Titles

OFFICE OF TITLES VICTORIA

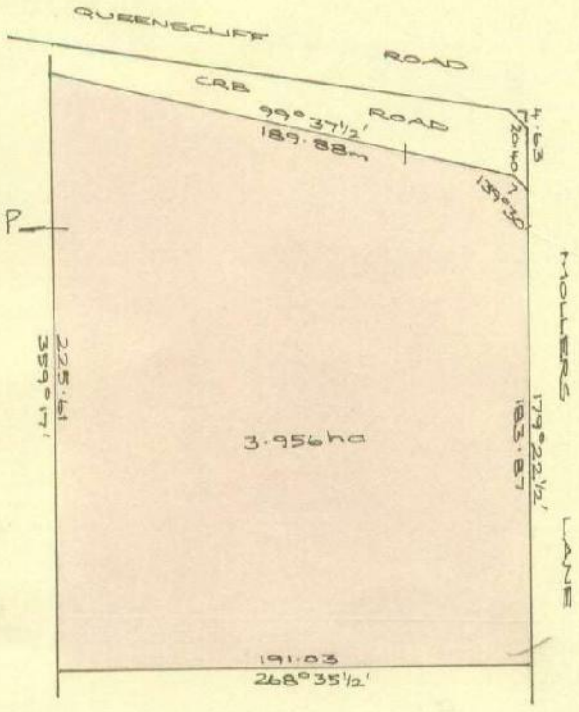
ENCUMBRANCES REFERRED TO

E698366 - - - - - -

MORTGAGE

THE ABOVE MORTGAGE IS DISCHARGED 15 MAY 1984

A.S.



2

AREA IS IN HECTARES (ha)

MEASUREMENTS ARE IN METRES

Derived from Vol.8643 Fol.236
G647896

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ALLCARD PTY. LTD. of 48 The Parade
Ocean Grove is now the proprietor
Registered 15th May 1984
No.L36178H

A.S.

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Volume 10080 Folio 342
Folio Creation: Created as paper folio continued as computer folio

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
	29/09/1995	PC353398K	Y	Cancelled by PC353398K

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged

STATEMENT END

Paper Title Images

10080/342 - Version 0, Date 16/04/1999

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LP 10421

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CANCELLED

REGISTER BOOK

VOL. 10080 FOL. 342

VICTORIA

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

FOL.

VOL.

RIMO SCAPIN and EDNA SCAPIN as joint proprietors as to one equal undivided half part or share and ROBERT SCAPIN as to one equal undivided half part or share all of 21 Greaves Street Werribee are proprietors as TENANTS IN COMMON subject to the encumbrances notified hereunder in all that piece of land in the Parish of Moolap being part of Crown Portion 17 Block One which land is shown enclosed by continuous lines on the map hereon - - - - - - - - - - -

Dated 4/3/92

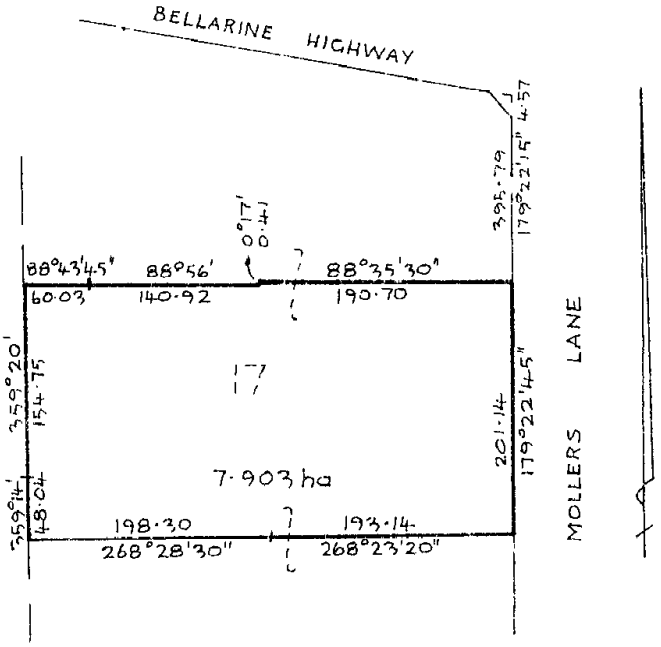
DERIVED FROM APPLICATION 70421D

ENCUMBRANCES

OFFICE OF TITLES VICTORIA

Assistant Registrar of Titles

Mortgage to National Australia Bank Limited registered Book 868 No 2 (AP70421D)



PLAN PC353398K AFFECTS LAND HEREIN

T10080-342-1-9

MEASUREMENTS ARE IN METRES

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VOL. 10080 FOL. 342

CREATION OF EASEMENT

T879045N 22/9/95

OFFICE OF TITLES K.B. VICTORIA

CANCELLED

NO. PC353398K

OFFICE OF TITLES K.B. VICTORIA

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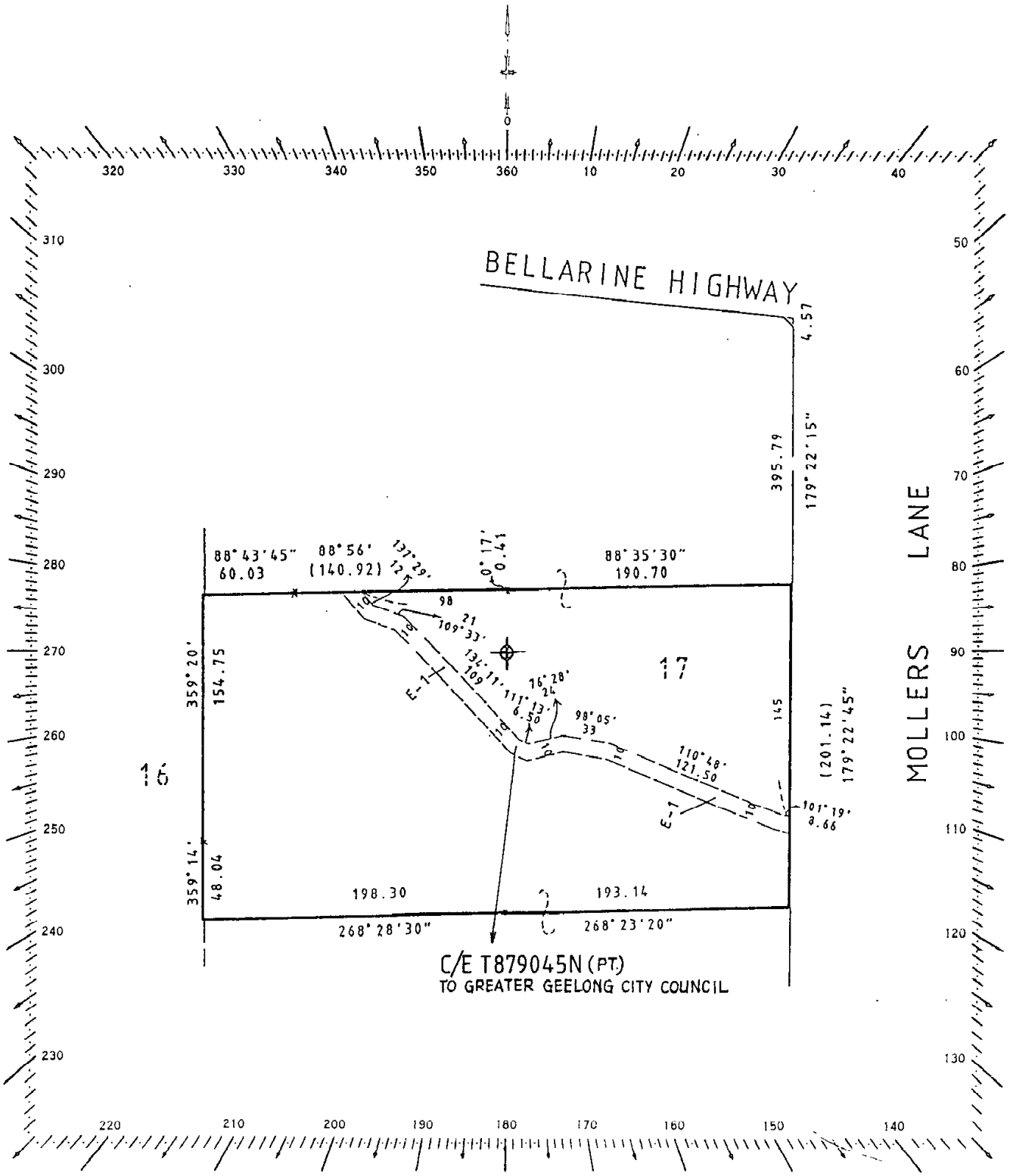
SCALE: 1:3000

Volume 10080 Folio 342

T10080-342-2-7



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Natural Resources and Environment

AGRICULTURE • RESOURCES • CONSERVATION • LAND MANAGEMENT

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RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
	29/09/1995	PC353398K	Y	Cancelled by PC353398K

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged

STATEMENT END

Paper Title Images

10080/343 - Version 0, Date 16/04/1999

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VOL. 10080 FOL. 343

VICTORIA

Certificate of Title

UNDER THE "TRANSFER OF LAND ACT"

VOL. FOL.

RIMO SCAPIN and EDNA SCAPIN as joint proprietors as to one equal undivided half part or share and ROBERT SCAPIN as to one equal undivided half part or share all of 21 Greaves Street Werribee are proprietors as TENANTS IN COMMON subject to the encumbrances notified hereunder in all that piece of land in the Parish of Moolap being part of Crown Portion 17 Block One which land is shown enclosed by continuous lines on the map hereon - - - - - - - - - - -

Dated 4/3/92

DERIVED FROM APPLICATION 70421D

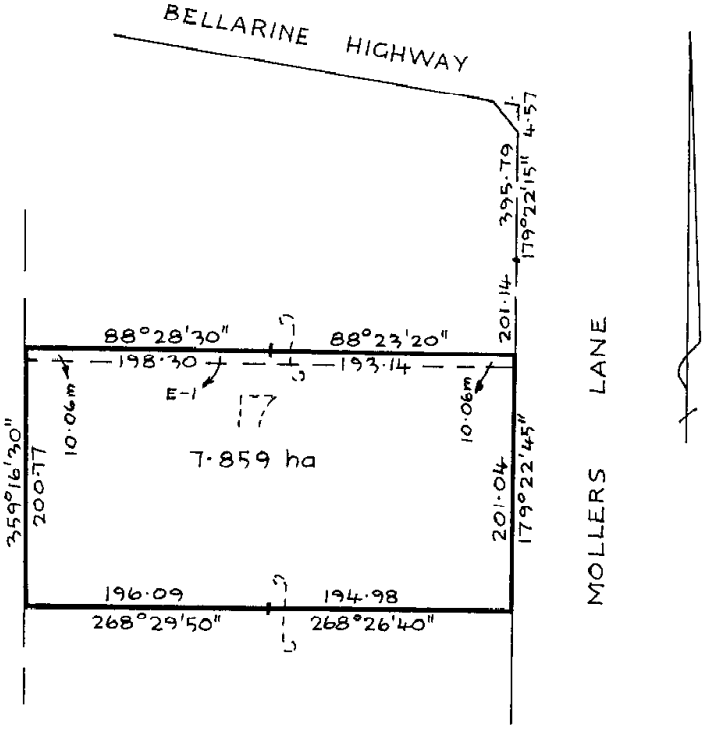
ENCUMBRANCES

OFFICE OF TITLES VICTORIA

Assistant Registrar of Titles

Mortgage to National Australia Bank Limited registered Book 868 No 2 (AP70421D)

As to the land shown marked E-1: Easement to Rural Water Commission Book 713 No 937 (AP70421D)



PLAN PC 353398K AFFECTS LAND HEREIN

T10080-343-1-5

MEASUREMENTS ARE IN METRES

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VOL. 10080 FOL. 343

CANCELLED

NO. PC353398K

OFFICE OF TITLES K.B. VICTORIA

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Volume 10252 Folio 153
Folio Creation: Created as a computer folio
Parent titles :
Volume 10080 Folio 342 to Volume 10080 Folio 343

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
10/09/1996	07/10/1996	U397568Y	Y	MORTGAGE NATIONAL AUSTRALIA BANK LIMITED
10/09/1996	07/10/1996	U397567C	Y	TRANSFER JONES, LINDA JONES, GLYN MCMILLAN
10/09/1996	07/10/1996	U397566F	N	DISCHARGE OF MORTGAGE RB8680002

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
04/08/2004	05/08/2004	AD026603B	Y

APPLICATION RE NOTICE OF INTENTION TO ACQUIRE LAND
NOTICE as to part Section 10(1) Land Acquisition and Compensation Act 1986
BARWON REGION WATER AUTHORITY
ADDRESS FOR SERVICE OF NOTICES
HARWOOD ANDREWS LAWYERS of 70 GHERINGHAP STREET GEELONG VIC 3220
AD026603B 04/08/2004

11/02/2005	10/03/2005	AD434656C	Y

NOTIFICATION OF EASEMENT OR RIGHT
AND REMOVAL OF NOTICE AD026603B

25/09/2015	25/09/2015	AM205769P	Y

CAVEAT
CAVEAT AM205769P 25/09/2015
Caveator
MOLLERS LANE DEVELOPMENT PTY LTD
Grounds of Claim
AGREEMENT WITH THE FOLLOWING PARTIES AND DATE.
Parties
THE REGISTERED PROPRIETOR(S)
Date
04/08/2015
Estate or Interest
FREEHOLD ESTATE
Prohibition
ABSOLUTELY
Lodged by

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FENNELLY B J & ASSOCIATES
Notices to
FENNELLY B J & ASSOCIATES of 130 HIGH STREET BELMONT VIC 3216

STATEMENT END

VOTS Snapshot

Volume 10252 Folio 153
124011269833K
Produced 05/08/2004 02:13 pm

LAND DESCRIPTION

Land in Plan of Consolidation 353398K.
PARENT TITLES :
Volume 10080 Folio 342 to Volume 10080 Folio 343
Created by instrument PC353398K 28/09/1995

REGISTERED PROPRIETOR

Estate Fee Simple
Joint Proprietors
GLYN MCMILLAN JONES
LINDA JONES both of 2 BUCKLAND AV. NEWTOWN 3220
U397567C 10/09/1996

ENCUMBRANCES, CAVEATS AND NOTICES

MORTGAGE U397568Y 10/09/1996
NATIONAL AUSTRALIA BANK LIMITED

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 set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE PC353398K FOR FURTHER DETAILS AND BOUNDARIES

Imaged Document Cover Sheet

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Document Type	**plan**
Document Identification	**PC353398K**
Number of Pages (excluding this cover sheet)	**3**
Document Assembled	**26/07/2016 16:43**

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PLAN OF CONSOLIDATION

LTO USE ONLY
EDITION 2

PLAN NUMBER
PC 353398K

LOCATION OF LAND

PARISH: MOOLAP

TOWNSHIP:

SECTION:

CROWN ALLOTMENT:

CROWN PORTION: 17 BLOCK ONE(PART)

LTO BASE RECORD: CHART 9 (3153)
TITLE REFERENCE/S: VOLUME 10080 FOLIO 342
VOLUME 10080 FOLIO 343

LAST PLAN REFERENCE: AP 70421D

POSTAL ADDRESS: 42-90 MOLLERS LANE
(At time of consolidation) LEOPOLD 3224

AMG Co-ordinates E 278 700
(of approx centre of land in plan) N 5 769 050 ZONE: 55

COUNCIL CERTIFICATION AND ENDORSEMENT

COUNCIL NAME: CITY OF GREATER GEELONG. REF: 2991

1. This plan is certified under Section 6 of the Subdivision Act 1988.
2. ~~This plan is certified under Section 11(7) of the Subdivision Act 1988.~~
~~Date of original certification under Section 6.~~ / /
3. This is a statement of compliance issued under Section 21 of the Subdivision Act 1988.

Council Delegate
~~Council Seal~~
Date / /

~~Re-certified under Section 11(7) of the Subdivision Act 1988.~~
~~Council Delegate~~
~~Council Seal~~
~~Date / /~~

NOTATIONS

DEPTH LIMITATION

Does not apply

SURVEY. THIS PLAN ~~IS~~/IS NOT BASED ON SURVEY

THIS SURVEY HAS BEEN CONNECTED TO PERMANENT MARKS No.(s)
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	SUPPLY OF WATER	10·06	BK 713 NO 937	RURAL WATER COMMISSION
E-2	DRAINAGE	10	C/E T879045N	CITY OF GREATER GEELONG
E-3	WATER SUPPLY	5	AD434656C (VIDE SECTION 130 OF THE WATER ACT 1989 AND SECTION 19 OF THE LAND ACQUISITION AND COMPENSATION ACT 1986)	BARWON REGION WATER AUTHORITY

LTO USE ONLY

STATEMENT OF COMPLIANCE/
EXEMPTION STATEMENT

RECEIVED ☑

DATE: 27 / 6 / 95

LTO USE ONLY

PLAN REGISTERED

TIME 3.40 pm

DATE 28 / 9 / 95

Assistant Registrar of Titles

SHEET 1 OF 2 SHEETS

MERVYN JOHN SMITH
Licensed Surveyor
16 MORTIMER STREET WERRIBEE 3030
Phone (03) 741 3018

LICENSED SURVEYOR (PRINT) MERVYN JOHN SMITH

SIGNATURE ..... DATE / /

REF 518-3 VERSION

..... DATE / /

COUNCIL DELEGATE SIGNATURE

ORIGINAL SHEET SIZE A3

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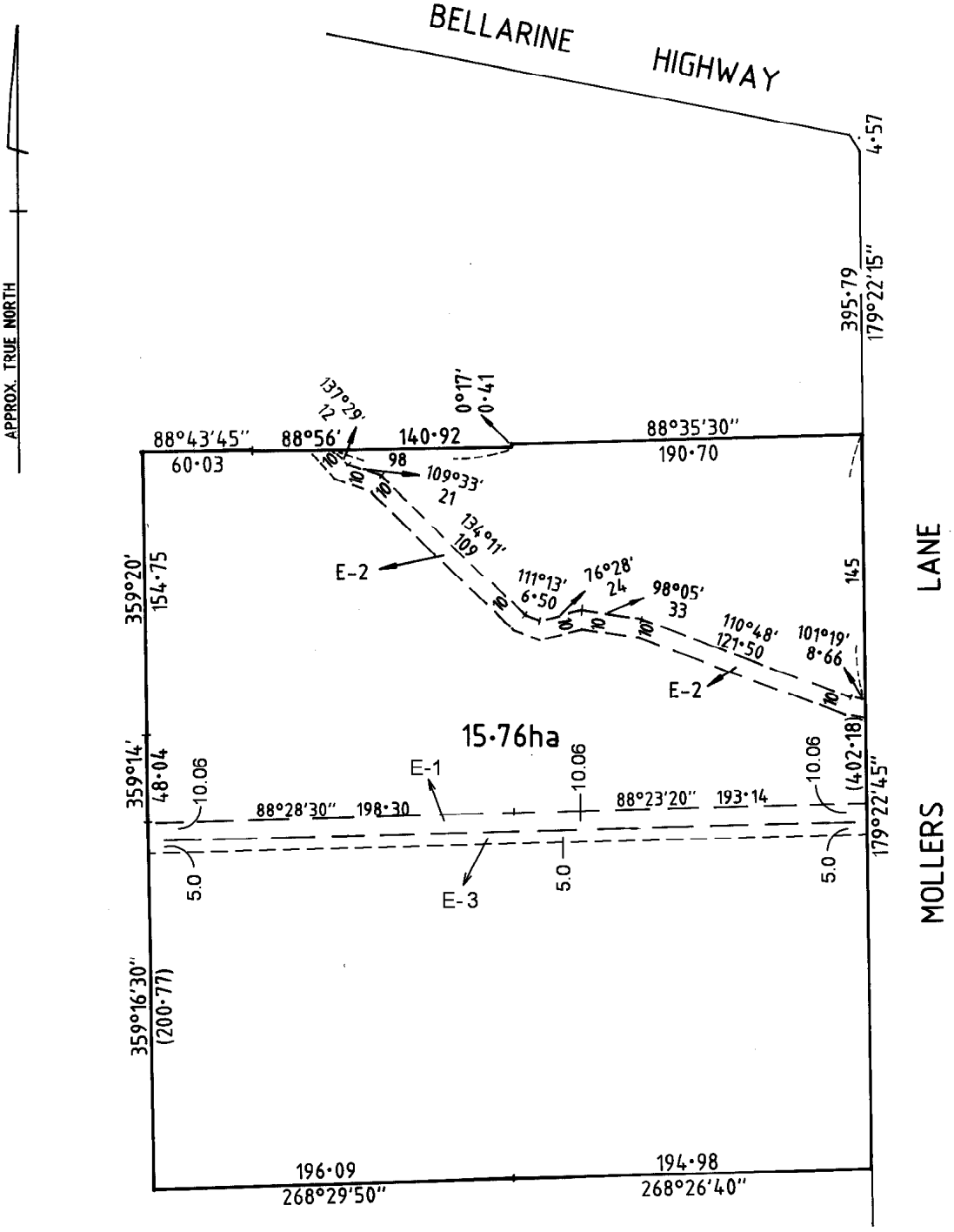
PLAN OF CONSOLIDATION

PLAN NUMBER **PC 353398K**



MERVYN JOHN SMITH
Licensed Surveyor
16 MORTIMER STREET WERRIBEE 3030
Phone (03) 741 3018

50 0 50 100
LENGTHS ARE IN METRES

ORIGINAL
SCALE 1:2500
SHEET SIZE A3

LICENSED SURVEYOR (PRINT) MERVYN JOHN SMITH
SIGNATURE ..... DATE / /
REF **518-3** VERSION

SHEET 2 OF 2 SHEETS
DATE / /
COUNCIL DELEGATE SIGNATURE

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm

Creffield's PC03

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MODIFICATION TABLE

RECORD OF ALL ADDITIONS OR CHANGES TO THE PLAN

PLAN NUMBER

PC353398K

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AFFECTED LAND/PARCEL	LAND/PARCEL IDENTIFIER CREATED	MODIFICATION	DEALING NUMBER	DATE	EDITION NUMBER	ASSISTANT REGISTRAR OF TITLES
LAND IN THIS PLAN	E-3	NOTIFICATION OF EASEMENT	AD434656C	8/3/05	2	W.S.

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 10252 FOLIO 153

Security no : 124061452603V
Produced 26/07/2016 04:40 pm

LAND DESCRIPTION

Land in Plan of Consolidation 353398K.
PARENT TITLES :
Volume 10080 Folio 342 to Volume 10080 Folio 343
Created by instrument PC353398K 28/09/1995

REGISTERED PROPRIETOR

Estate Fee Simple
Joint Proprietors
GLYN MCMILLAN JONES
LINDA JONES both of 2 BUCKLAND AV. NEWTOWN 3220
U397567C 10/09/1996

ENCUMBRANCES, CAVEATS AND NOTICES

MORTGAGE U397568Y 10/09/1996
NATIONAL AUSTRALIA BANK LTD

CAVEAT AM205769P 25/09/2015
Caveator
MOLLERS LANE DEVELOPMENT PTY LTD
Grounds of Claim
AGREEMENT WITH THE FOLLOWING PARTIES AND DATE.
Parties
THE REGISTERED PROPRIETOR(S)
Date
04/08/2015
Estate or Interest
FREEHOLD ESTATE
Prohibition
ABSOLUTELY
Lodged by
FENNELLY B J & ASSOCIATES
Notices to
FENNELLY B J & ASSOCIATES of 130 HIGH STREET BELMONT VIC 3216

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 set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE PC353398K FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

Street Address: 42-90 MOLLERS LANE LEOPOLD VIC 3224

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

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Volume 10401 Folio 393
Folio Creation: Created as a computer folio

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
05/08/1998	14/12/1998	V569140N	Y	MORTGAGE BENDIGO BANK LTD
15/11/2001	06/12/2001	X882969R	Y	TRANSFER MASEK, PAUL JOSEPH
15/11/2001	06/12/2001	X882968U	Y	DISCHARGE OF MORTGAGE V569140N

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged

STATEMENT END

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Document Assembled	**27/07/2016 08:27**

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EDITION 1	TITLE PLAN	TP 11676Q

Location of Land
Parish: MOOLAP
Township: —
Crown Allotment: —
Section: —
Crown Portion: 17(PT)
BLOCK I
LTO base record: S.D.M.B.-C (RURAL)
Last plan Reference:
Title Reference:
Depth Limitation: NIL

Notations

Warning as to dimensions :
Any dimension and connection distance shown is based on the description of the land as contained in the General Law Title and is not based on survey information which has been investigated by the Registrar of Titles.

Easement Information

E - Encumbering Easement R - Encumbering Easement (ROAD) A - Appurtenant Easement

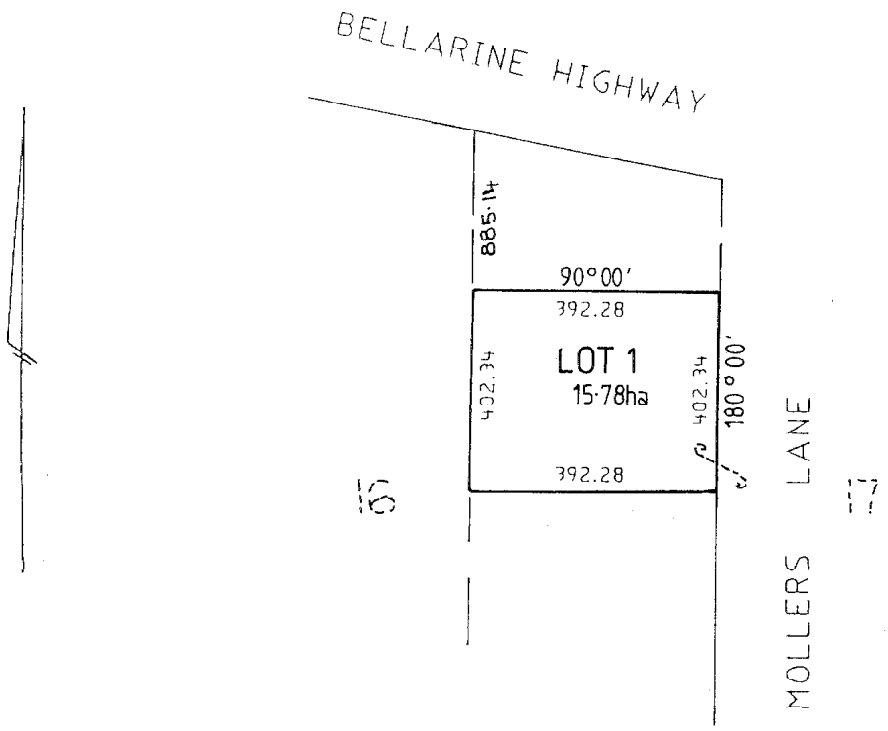
Easement Reference	Purpose/Authority	Width	Origin	Land benefitted/In favour of
NIL				

THIS PLAN HAS BEEN PREPARED FOR LAND REGISTRY, LAND VICTORIA FOR TITLE DIAGRAM PURPOSES

Checked by Hoare

Date 9 SEP 1998

Assistant Registrar of Titles



LENGTHS ARE IN METRES	NOT TO SCALE	SHEET SIZE A3	FILE No. AP 113477P
			DEALING CODE : 26D

Sheet 1 of 1 Sheets

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REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 10401 FOLIO 393

Security no : 124061455561F
Produced 27/07/2016 08:26 am

LAND DESCRIPTION

Lot 1 on Title Plan 011676Q.
Created by Application No. 113477P 04/08/1998

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
PAUL JOSEPH MASEK of 31 GOVET CR. ST ALBANS PARK 3219
X882969R 15/11/2001

ENCUMBRANCES, CAVEATS AND NOTICES

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 set out under DIAGRAM LOCATION below.

Warning as to Dimensions
Any dimension and connecting distance shown is based on the description of the land as contained in the General Law Title and is not based on survey information which has been investigated by the Registrar of Titles.

DIAGRAM LOCATION

SEE TP011676Q FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

Street Address: 92-120 MOLLERS LANE LEOPOLD VIC 3224

DOCUMENT END

Appendix 7: Historical Aerial Photographs

Environmental Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Legend

Approximate site boundary

Date: 01/1947

Run/Film/Frame: ETIE/629/62

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	29.07.16
File:	Aerial Images .pdf		
Location:	2-120 Mollers Lane, Leopold		
Client:	Mollers Lane Holdings Pty Ltd		

Legend

Approximate site boundary

Date: 03/1963

Run/Film/Frame: 29/1643/6

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	29.07.16
File:	Aerial Images .pdf		
Location:	2-120 Mollers Lane, Leopold		
Client:	Mollers Lane Holdings Pty Ltd		

Environmental Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Environmental Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Legend

Approximate site boundary

Date: 12/1970

Run/Film/Frame: 6/2455/42

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	29.07.16
File:	Aerial Images .pdf		
Location:	2-120 Mollers Lane, Leopold		
Client:	Mollers Lane Holdings Pty Ltd		

Environmental Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Legend

Approximate site boundary

Date: 05/1984

Run/Film/Frame: 6/3872/94

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	29.07.16
File:	Aerial Images .pdf		
Location:	2-120 Mollers Lane, Leopold		
Client:	Mollers Lane Holdings Pty Ltd		

Legend

Approximate site boundary

Date: 01/1990

Run/Film/Frame: 6/4318/119

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	29.07.16
File:	Aerial Images .pdf		
Location:	2-120 Mollers Lane, Leopold		
Client:	Mollers Lane Holdings Pty Ltd		

Environmental Site Assessments

Phone: 0433 747 187
seton@envirositeassessments.com
PO Box 3106,
Waurn Ponds, VIC 3216
www.envirositeassessments.com

Appendix 8: Cathodic Protection Systems

energysafe VICTORIA

Creating a safer state with electricity and gas

2 August, 2016

TO: Aidan Stephens

Environmental Site Assessments

M: 0428 889 276

SEARCH FOR CATHODIC PROTECTION SYSTEMS

With reference to your email of 26/07/2016, a search of the CP database has failed to identify any cathodic protection systems that have been registered at the following locations:

- **2-20 Mollers Lane, Leopold**
- **22-30 Mollers Lane, Leopold**
- **32-40 Mollers Lane, Leopold**
- **42-90 Mollers Lane, Leopold**
- **92-120 Mollers Lane, Leopold**

Yours sincerely

Peter Wade

MANAGER ELECTROLYSIS MITIGATION

Disclaimer

Energy Safe Victoria provides this information in good faith, but cannot guarantee the accuracy or validate the information provided. The Cathodic Protection (CP) database is a register of currently operating Cathodic Protection systems in Victoria and was established in 1970. The CP database is administered under the Electricity Safety Act 1998 and the Electricity Safety (Cathodic Protection) Regulations 2009.
Some underground fuel tanks may not be listed in the CP database including: if the tank is not metallic (therefore not requiring CP); the tank is metallic but CP was not installed; the CP system was not registered, or the CP system has been de-commissioned.
If you believe underground tanks may be present and not shown on ESV's database you should conduct your own tests and investigations.

Appendix 9: Dial Before You Dig Search

DIAL BEFORE YOU DIG www.1100.com.au

Job No 9763144

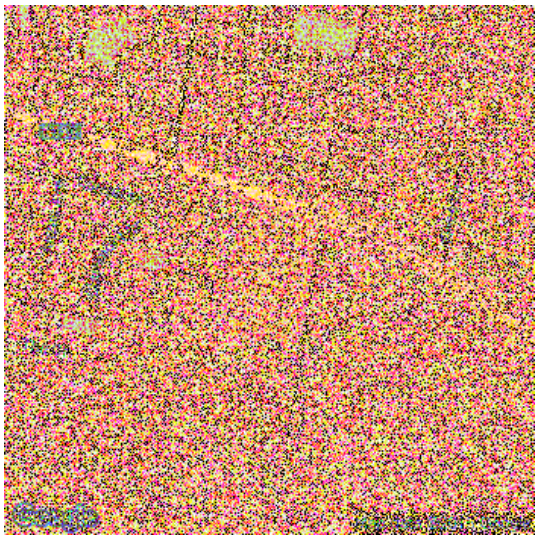
Phone: 1100
www.1100.com.au

Caller Details

Contact:	Mr Seton Lillas	**Caller Id:**	1163564	**Phone:**	0433747187
Company:	Environmental Site Assessments	**Mobile:**	Not Supplied	**Fax:**	Not Supplied
Address:	2 Homestead Court Highton VIC 3216	**Email:**	seton@envirositeassessments.com		

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: 2-30 Mollers Lane Leopold
Working on Behalf of:
Private

Enquiry Date:	Start Date:	End Date:
07/10/2015	09/10/2015	09/10/2015

Address:
2 Mollers Lane
Leopold VIC 3224

Job Purpose: Excavation
Onsite Activity: Vertical Boring
Location of Workplace: Private Property
Location in Road: Not Supplied

- Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:
Collecting near surface soil samples (0-150mm deep) with manual hand auger.

Your Responsibilities and Duty of Care

- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at **www.1100.com.au**
- **For more information on safe excavation practices, visit www.1100.com.au**

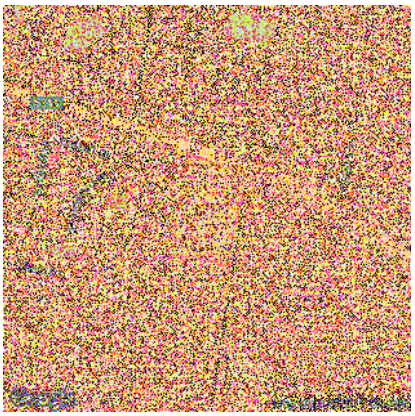
Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.
** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.
# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
48330360	AusNet Gas Services Pty Ltd	1800088208	NOTIFIED
48330361	Barwon Water	1300656007	NOTIFIED
48330356	City of Greater Geelong	0352724345	NOTIFIED
48330359	Optus and/or Uecomm, Vic	1800505777	NOTIFIED
48330357	Powercor - Geelong	132206	NOTIFIED
48330358	Telstra VICTAS	1800653935	NOTIFIED

END OF UTILITIES LIST

DBYD Response from AusNet Gas Services Pty Ltd.



Job Number: 9763144

Sequence Number: 48330360

Enquiry Date: 07/10/2015

Enquiry Location: 2 Mollers Lane Leopold, VIC

Thank you for using the Dial Before You Dig (DBYD) service before engaging in work at the above location.

AusNet Gas Services Pty Ltd – Gas Assets Present

Please find attached Plans and Conditions for Works near gas assets in the vicinty of your enquiry.

** Please note this information is only valid for 28 Days from date of issue.*

Do not rely soley on these Dial Before You Dig plans for underground asset location. The exact location of existing underground assets should be established on site prior to commencement of work. Should you wish to advise AusNet Gas Services Pty Ltd of any data discrepancy, please call 1800 088 208.

For Your Safety

In case of emergency, gas escapes, hit or damaged gas pieplines call **136707.**

Where proposed work is in close proximity to a gas pipe, the exact location of the pipe must first be determined by careful hand excavation.

Gas Service Lines on Private Property

Supplied plans do not show gas service lines on private property and do not show any gas assets of authorities other than AusNet Gas Services Pty Ltd, which may exist on site.

If you require assistance to locate gas services please contact **Tenix Networks** at the following locations.

Melb Metro	(03) 9931 2076	Ballarat	(03) 5342 6400	Warrnambool	(03) 5561 9614
Geelong	(03) 5223 9400	Bendigo	(03) 5442 4855		

AusNet Services – DBYD Support

LEGEND – GAS ASSETS

TYPE OF PIPE

C2	CAST IRON
C3	CAST IRON MECHANICAL JOINT
C4	CAST IRON SOUTHERN
C5	CAST IRON A.I.S.
C6	CAST IRON METTERS CLOW
C7	CAST IRON STAVELEY
C8	CAST IRON STANTON
C9	CAST IRON STANTON–STAVELEY
C10	CAST IRON LEAD JOINT
D2	DUCTILE IRON–UNCOATED
D3	DUCTILE IRON–PLASTIC COATED
F2	FIBRO CEMENT
P2	PLASTIC POLYETHYLENE (PE)
P3	PLASTIC POLY VINYL CHLORIDE (PVC)
P4	PLASTIC PIPE OTHER – L.P.ONLY
P5	PLASTIC IMPACT MODIFIED (TYPE 3)
P6	PLASTIC POLYETHYLENE (P.E.) CL 500 MEDIUM DENSITY (HP), (YELLOW)
P7	PLASTIC POLYETHYLENE (P.E.) CL 250 MEDIUM DENSITY (LP/MP), (YELLOW)
P8	PLASTIC POLYETHYLENE (P.E.) PE80B METRIC, (BLACK WITH YELLOW STRIPES)
P9	PLASTIC POLYETHYLENE (P.E.) PE100 METRIC, (BLACK WITH ORANGE STRIPES)
P10	PLASTIC POLYETHYLENE (P.E.) PE100 METRIC, (BLACK WITH YELLOW STRIPES)
S2	STEEL
S3	STEEL COATED & SCREWED
S4	STEEL COATED & WELDED
S5	STEEL GALVANIZED
S6	STEEL COATED GIBAULT JOINT
S7	STEEL PLASTIC COATED & WELDED
S8	STEEL PLASTIC COATED & SCREWED
S9	STEEL INTERPON FBE COATED
S10	STEEL NAPGARD FBE COATED
S20	STEEL WELDED–EXTRUDED POLETHYLENE COATED (T.P.)
S21	STEEL WELDED–ENAMEL COATED (T.P.)
S22	STEEL WELDED–FUSION BOND EPOXY COATED (T.P.)
S23	STEEL WELDED–FUSION BONDED POLYETHYLENE COATED (T.P.)
S24	STEEL WELDED–MULTI–LAYERED EXTRUDED POLYETHYLENE COATED (T.P.)
W2	WROUGHT IRON GALVANIZED

FITTINGS AND NOTATIONS

90°	BEND
B.P.	BLADDER PLATE
(C.B.)	COMBINED BEND
F. & F.	FLANGE & FAUCET PIECE
F. & S.	FLANGE & SPIGOT PIECE
L.T.	LONGTHREAD
MA	MUELLER ADAPTOR (HP) OFF A WILLIAMSON TEE
D.E.	MUELLER DEAD END EXTENSION
L.S.	MUELLER LINE STOPPER
T.S.	MUELLER SERVICE TEE
T.V.	MUELLER TEE VALVE
P.L.	PROPERTY LINE
PST	PVC TEE
R.	REDUCER
SD.	SADDLE (C.I. MAINS ONLY)
ST.	STOOL (C.I. MAINS ONLY)
T.	TEE
T.SP.	TEE SPLIT
TH.	THIMBLE
TH.R	THIMBLE REDUCER
TH.SP.	THIMBLE SPLIT
TH.SP.B.	THIMBLE SPLIT BOSSED
TH.SP.F	THIMBLE SPLIT FLANGED
(V)	VERTICAL
W.S.	WILLIAMSON SHORT STOPP
W.T.	WILLIAMSON TEE

K OR P	REGULATOR KIOSK / PIT
S	SERVICE REGULATOR
SCADA D5–107	SYSTEM CONTROL & DATA ACQUISITION NUMBER
P1–101	REGULATOR NUMBER
	SYPHON
	PURGE, PRESSURE POINT
	VALVE
	VALVE INSULATED
	FLANGE BLANK
	INSULATED FITTING
Ⓐ / Ⓣ	ANODE BED / TEST POINT
Ⓒ	CATHODIC PROTECTION UNIT
	ENCASING PIPE/INSERTION PIPE
	CONCRETE SLABBING
	CROSS
GAS CRITICAL VALVE	GAS CRITICAL VALVE
△	INSTRUMENT STATION

—— —— ——	PROPOSED TITLE BOUNDARY
=======	EASEMENT BOUNDARY
—— – —— – ——	BACK OF KERB (B.O.K.)
——/——/——	FENCE LINE
2/74	DATE MAIN LAID FEB. 1974
E.O.M.	END OF MAIN
N.T.I.	NOT TIED IN
2.1 / C1.0	OFFSET
VR	COVER
CP 12345 LP12345	VIC ROADS
PS 123456 RP12345	SURVEY / TITLE DRAWINGS
RCA 12345 SP12345	
C.T.	COMMON TRENCHING
D.B.	DIRECTIONAL BORING
T.P.	TRANSMISSION PIPE
C.T.L.12345	CONSENT TO LAY
F.L.	FLOOR LEVEL
	PRELAID GAS SERVICE TO LOTS SHADED GREEN

ALPHA NUMERIC REFERENCES RELATE TO DETAILED DRAWINGS WHICH ARE AVAILABLE FROM SP AusNet.

EG.	M1 1234	MAINS DETAIL DRAWING
	E1	EASEMENT DRAWING
	N1	UNIT SITE LOCATION (INDUSTRIAL SERVICE)
	T	ROUTE PLANS (TRANSMISSION PIPELINES)

DIAL BEFORE YOU DIG www.1100.com.au

This Legend relates to the Plot provided in response to your DBYD request.

Technical Standard 2607.1

CONDITIONS FOR WORKS NEAR GAS INFRASTRUCTURE (MAINS AND SERVICES)

This information is provided by AusNet Services, the Gas Distribution Company whose Assets may be affected by the proposed works.

AusNet Services assets include:

- Low, Medium, High and Transmission pressure gas mains.
- Low, Medium and High Pressure Services.
- Corrosion Mitigation equipment
- Above and below ground structures (eg. regulator pit, kiosk, valve pit)

It is the responsibility of the person(s) carrying out the works to have the utmost regard for the safety of property and life. To assist in this, AusNet Services has provided these minimum Conditions for Works which the person(s) carrying out the works must comply with.

NOTE 1

Under no circumstances will AusNet Services accept liability for the acts or omissions of person(s) carrying out works. If in doubt, contact Tenix, AusNet Services's Primary Service Provider on **(03) 9931 2076 or Fax: (03) 9931 2078.**

- Every care has been taken to ensure that the location of gas mains shown on our district plans or given verbally is accurate. However, some variations from records do exist and complete accuracy cannot be guaranteed. AusNet Services does not accept any responsibility for any inaccuracies of its plans.
- **Service lines from the gas mains to consumer premises are not shown on the district plans or AM/FM. The location of any gas main or service must be proven by hand excavation.**

If damage occurs to any property that is owned by AusNet Services, AusNet Services will assert its legal rights. These legal rights include, but are not limited to:

- Seeking compensation for tortious damage to property; and
- Asserting statutory entitlements, including prosecution under the Gas Industry Act (Vic) 2001, as amended.

NOTE 2

The Gas Safety Act 1997 provides penalties for unauthorised works in the vicinity of AusNet Services-owned gas distribution assets and interference with:

- Gas company pipelines (other than transmission).
- Transmission pipelines and,
- And any other gas company installations and facilities.

Minimum Conditions for work near Gas mains or Services

1. It is essential that prior to any work being carried out, detailed design plans of the proposed construction work be checked by the Engineering Section of Tenix (**(03) 9931 2090**) for impact assessment. Only after Tenix have considered and approved the proposal, should works be commenced.

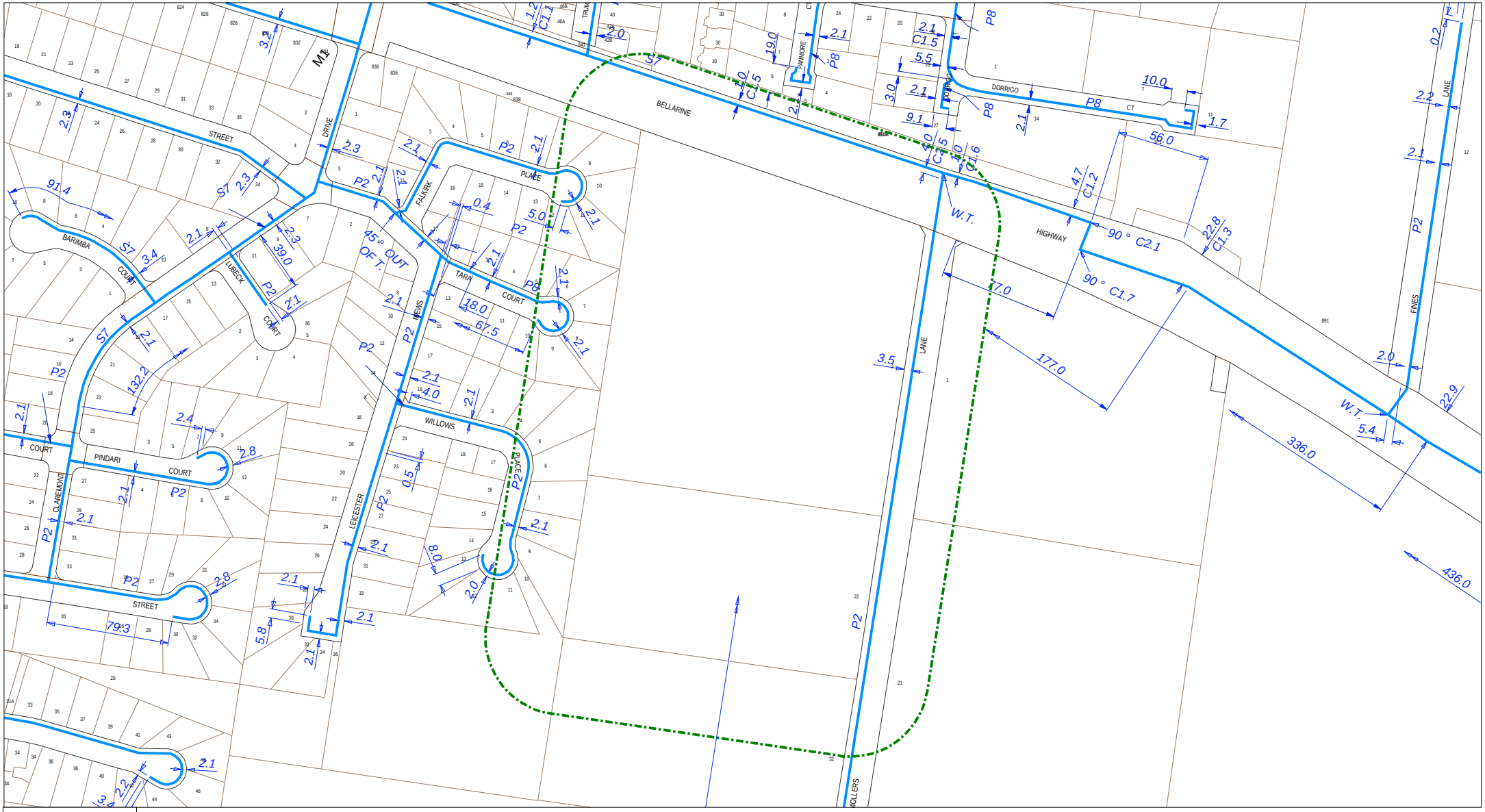
2. Final construction plans approved by Tenix, together with any relevant gas plans supplied are only to be used for proposed work. Updated gas works' plans must again be obtained for any further works in the future.

3. Special precautions must be taken in proving the location of **mains and services**. Damage to the coating or the pipe itself can with time, create a hazardous situation. If damage does occur, it must be reported to Tenix on **(03) 9931 2076 and 9931 2077 or Fax. (03) 9931 2078.**

4. It is the responsibility of the person(s) undertaking works to establish the **location of the gas mains and services by hand excavation** prior to the commencement of works. If the gas mains or services cannot be located within 1.5 metres either side of the documented or communicated location, Tenix must be contacted **on (03) 9931 2076 and 9931 2077 or Fax: (03) 9931 2078**.

AusNet services

0m 100m 200m 300m 400m 500m 600m 700m



N
W E
S

NOTE: AusNet Services has taken care to ensure that the locations of Gas Mains shown on this plan are accurate however some variations from records do exist and complete accuracy is not guaranteed. It is essential that the position of pipes be proved on site by hand excavation. AusNet Services shall not be liable for any loss damage claim or demand incurred either directly or indirectly resulting from any act or omission which was made in reliance in whole or in part upon this plan.

Warning - Take Precautions if Printing this Plot in Black & White.
All planned mains shall be treated as live mains, as mains under pressure may be in existence.

- Gas Transmission Pipeline
- Gas Distribution Mains
- Planned Gas Assets
- Requested Area

5. For works near gas mains (shown on gas plans in black, green, blue or orange), or services, onsite location / assistance can be arranged by contacting Tenix on **(03) 9931 2076 and 9931 2077 or Fax: (03) 9931 2078**, at least 2 working days prior to the commencement of planned works.

6. Onsite locations / assistance outside normal working hours (7.30am – 4.00pm Monday to Friday) may incur a fee charged as per the standard schedule of rates. During normal working hours Tenix can be contacted on **(03) 9931 2076 and 9931 2077.**

7. For works near **Transmission Pipelines** (shown on gas plans in red), Tenix Pipeline Security must be contacted on **(03) 9931 2041, or Fax: (03) 9931 2065** at least 2 working days prior to the commencement of planned works. These works are to be performed in accordance with TS 2607.2 - "Conditions for Works near Gas Transmission Pipelines" and TS 2607.3 - "Conditions for the use of Explosives near Gas Transmission Pipelines and Mains".

NOTE 3

For After Hours Contact:

- For Tenix Pipeline Security, telephone number is **Mobile: 0428 534 817**
- For Gas State Emergency telephone **13 27 71**

Minimum Clearances for Design and Construction of Gas Mains

As an aid to your design and/or construction, the following minimum clearances from AusNet Services gas reticulation mains are necessary and must be observed:

- 150 mm when crossing gas mains with installations up to 1500 mm wide or OD (Outside Diameter).
- 300 mm when crossing gas mains with installations greater than 1500 mm wide or OD.
- 300 mm when installations are laid parallel to gas mains.
- 500 mm between all gas mains and earthing stakes.
- 300 mm between the bottom of road boxing and the top of gas mains.
- 500 mm between electrical underground cables laid parallel to gas pipe larger than 32 mm OD and up to 250 mm OD. Where this is not possible or the gas pipe is above 250 mm OD, the matter must be referred to Tenix.
- 300 mm between electrical underground cables laid parallel to gas pipe 32mm OD or less.

Minimum Clearances for Design and Construction of Gas Services:

As an aid to your design and/or construction, the following minimum clearances from AusNet Services gas reticulation services are necessary and must be observed:

- 150 mm when any installation less than 40 mm OD (except electrical cables and TP Services), is laid parallel to a gas service. For installations of 40mm OD or greater, the minimum clearance requirements must be approved by the Engineering Manager, Tenix.
- Gas Service installations in conduits (except electric cables and TP services), may be laid adjacent to other installations.
- 500 mm between all gas services and earthing stakes.
- 300 mm between the bottom of road boxing and the top of a gas service.
- 150 mm in vertical distance to any installation (except electrical cables and TP Services).
- 300 mm between electrical underground cables laid parallel to a gas service.
- 150 mm between the bottom of a concrete driveway or footpath, and the top of a gas service.

NOTE 4

No installation is permitted above any gas reticulation main or service without the prior approval of the Engineering Manager, Tenix.

NOTE 5

Any variations from the above minimum clearances and particularly in relation to, multiple utility assets in shared, or common trenching, must be approved by the Engineering Manager, Tenix.

DBYD Job No.: 9763144 **DBYD Sequence No.:** 48330361

07/10/2015

Environmental Site Assessments
2 Homestead Court
Highton VIC 3216

Attention – Mr Seton Lillas

Dial Before You Dig Enquiry - 2 Mollers Lane, Leopold

Thank you for your recent Dial Before You Dig enquiry.

Please find attached plans detailing the location and information of Barwon Water assets in the enquiry area. These plans have been produced to the best of Barwon Water's knowledge and records at the time of the request.

Barwon Water assets must be located by hand excavation before any:

- mechanical excavation or
- underground boring.

Care must be taken when excavating near bends and fittings on pressure pipelines to ensure thrust blocks are not disturbed.

The plans provided only detail Barwon Water-owned water, recycled water and sewerage pipelines. Barwon Water suggests you locate any privately owned water, recycled water and sewerage pipelines not detailed on the attached plans (for example, house connections).

IMPORTANT NOTICE

If the proposed work is within six (6) metres of any main 300mm or greater in diameter, you MUST notify Barwon Water's Operations department of the exact nature and extent of the work. Please email is-ops-dbyd@barwonwater.vic.gov.au

You will be contacted within three (3) business days if it is determined the work may impact the Barwon Water asset.

Barwon Water will not be responsible for any damage caused. If you damage any asset, you must immediately telephone Barwon Water on 1300 656 007.

The replacement of bedding around pipes, trench backfill and minimum pipe clearance standards must be completed as per the Water Services Association Water Supply and Sewerage Codes of Australia.

For further information, please telephone Barwon Water on 1300 656 007 or email info@barwonwater.vic.gov.au

Barwon Region Water Corporation
ABN 86 348 316 514

P.O. Box 659, Geelong, Victoria, 3220 TEL: 1300 656 007 FAX: +61 3 5221 8236

www.barwonwater.vic.gov.au

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015

Disclaimer: Barwon Water does not provide any warranty, express or implied, as to the accuracy, completeness, currency or reliability of plans provided as part of the 'Dial Before You Dig' program. Furthermore, Barwon Water does not provide a warranty that the scale of the plans is accurate, or that they are suitable for a specific purpose. These plans are intended for general information only. Barwon Water is not responsible and does not accept liability for any loss, expense or damage (direct or indirect) which has arisen from reliance on any plans provided by Barwon Water. It is the responsibility of users of the plans to ensure the accuracy of the plans by independent means and to take care when undertaking works that have the potential to damage Barwon Water assets.

N

Sewer Assets
Serv Connection
Fitting Offset 2.0

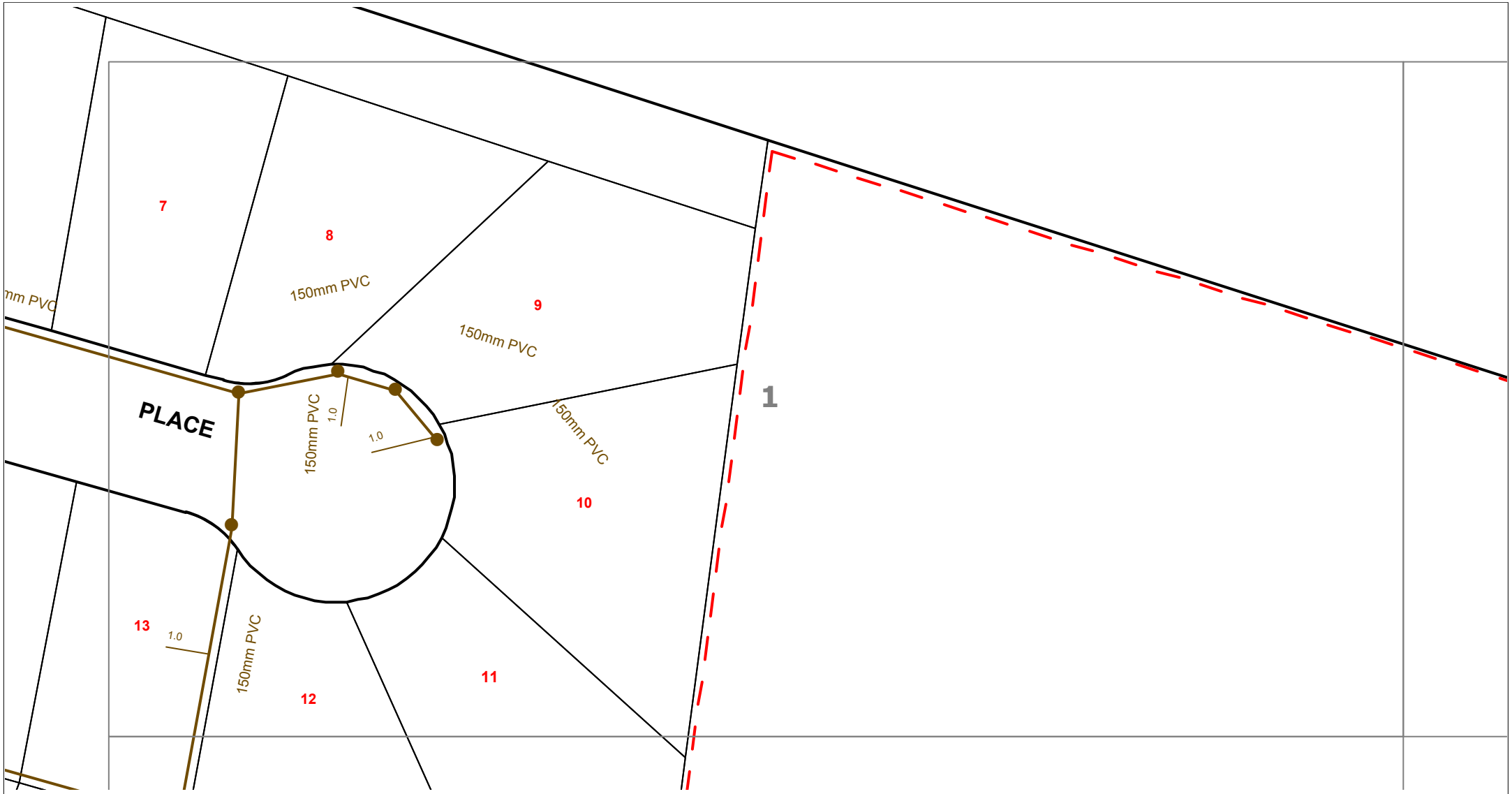
Gravity Sewer Assets
Pipe
Decom Pipe

Pressure Sewer Assets
Pipe
Decom Pipe

OH&S Hazards
Benzene Hazard
Exercise Caution

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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Sewer Assets
Serv Connection
Fitting Offset 2.0

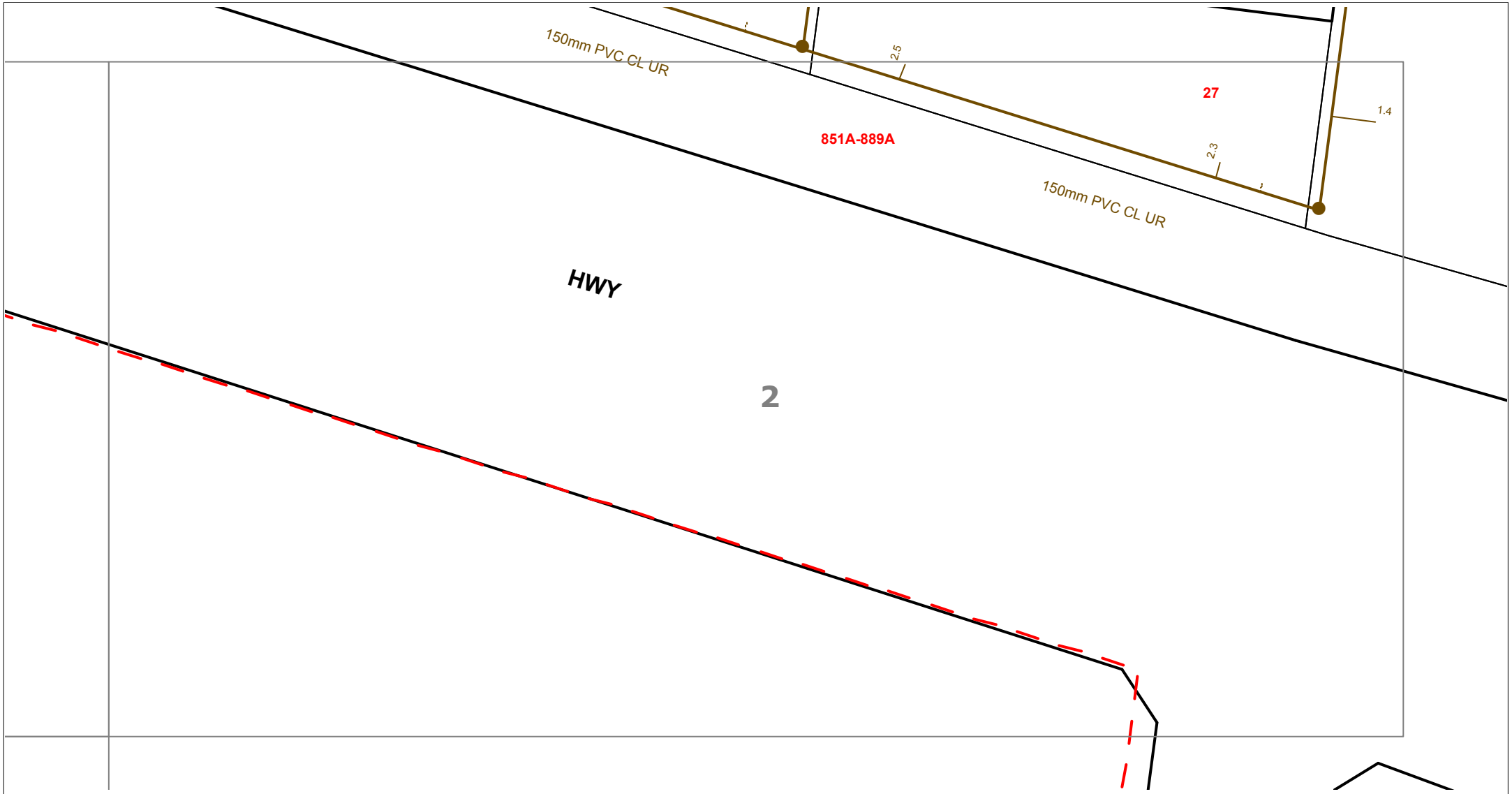
Gravity Sewer Assets
Pipe
Decom Pipe

Pressure Sewer Assets
Pipe
Decom Pipe

OH&S Hazards
Benzene Hazard Exercise Caution

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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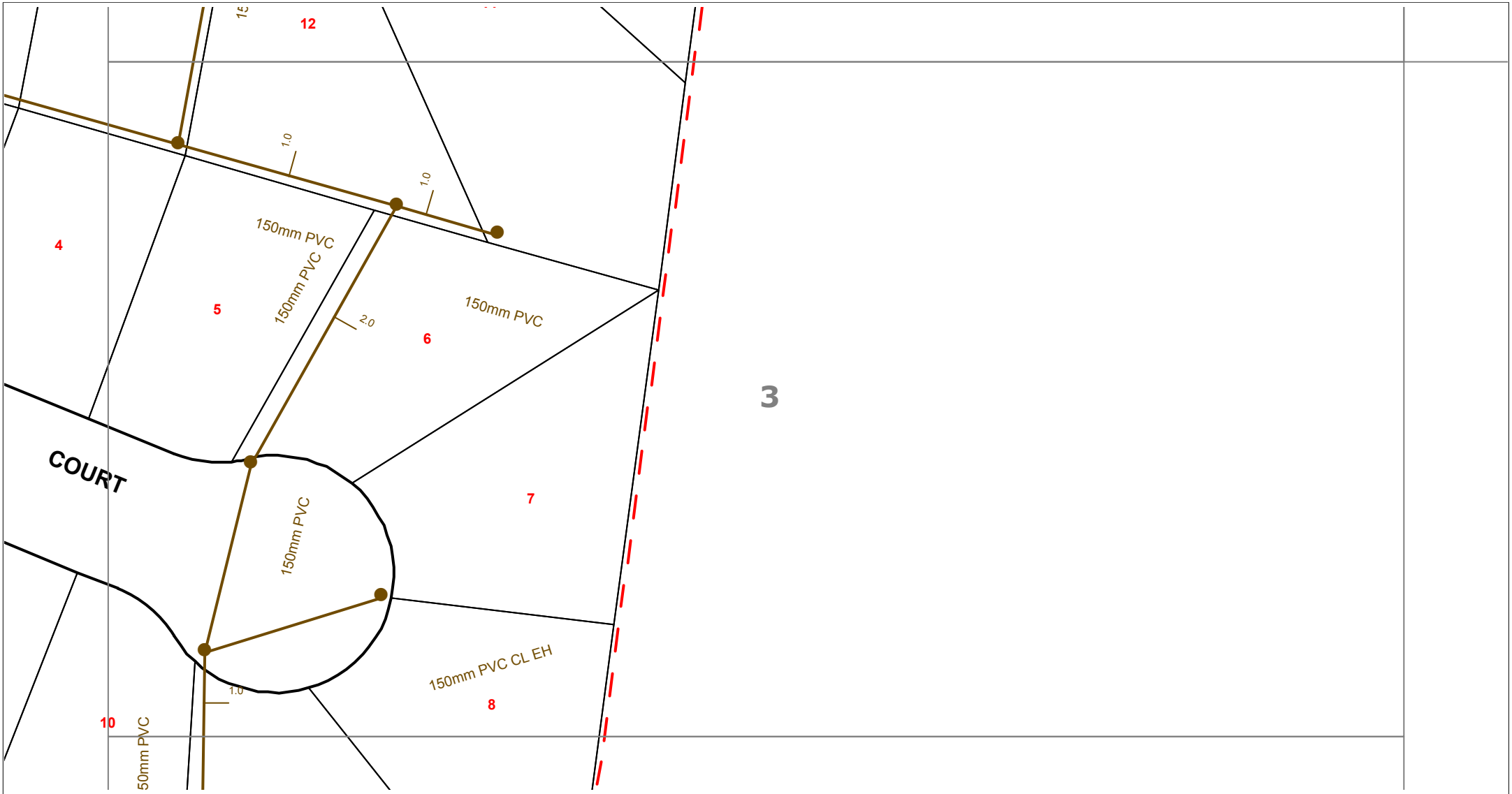
N

Sewer Assets	Gravity Sewer Assets	Pressure Sewer Assets	OH&S Hazards
Serv Connection	Pipe	Pipe	Benzene Hazard
Fitting	Decom Pipe	Decom Pipe	Exercise Caution
Offset 2.0			

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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N

Sewer Assets
Serv Connection
Fitting Offset 2.0

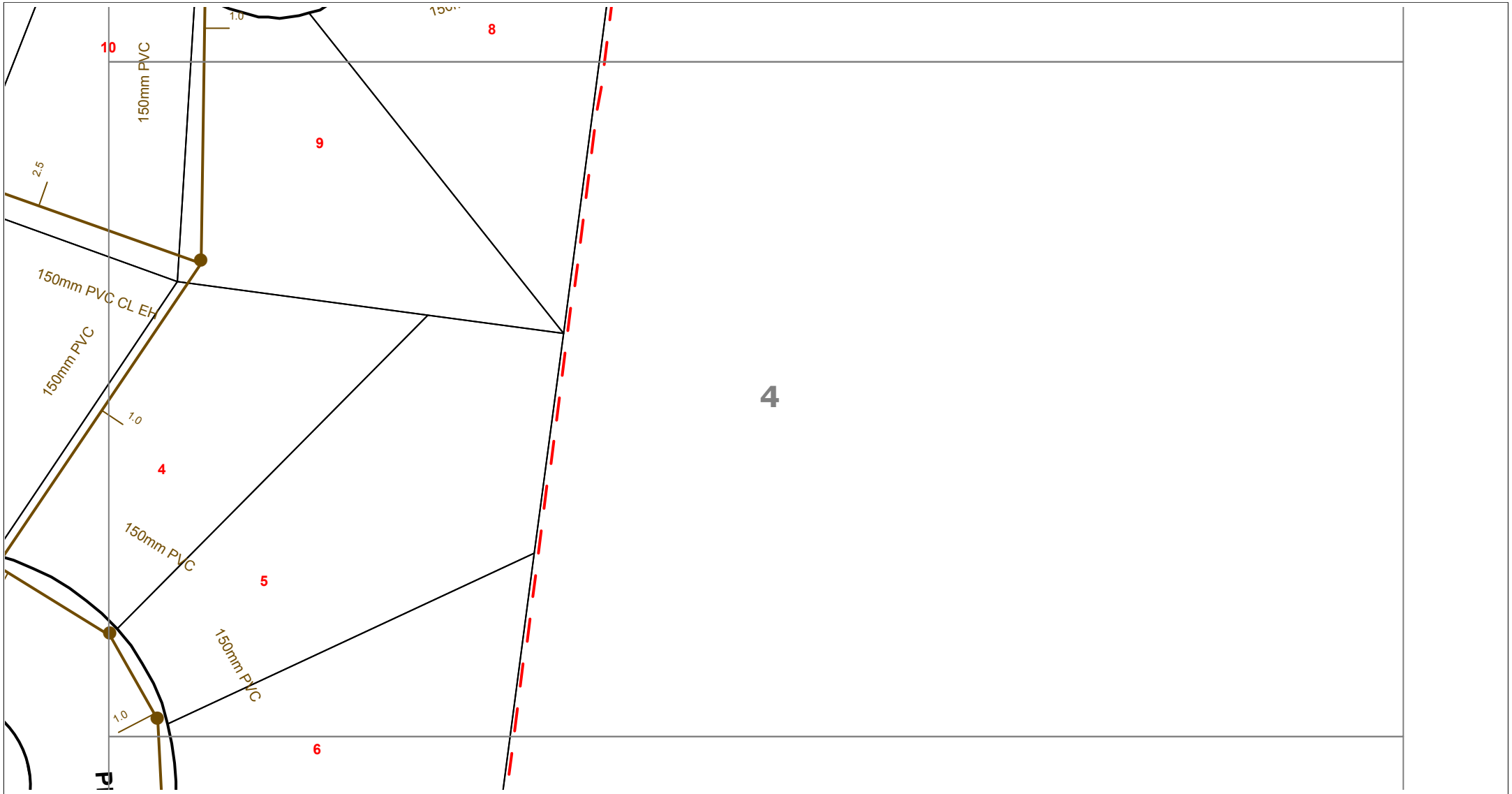
Gravity Sewer Assets
Pipe
Decom Pipe

Pressure Sewer Assets
Pipe
Decom Pipe

OH&S Hazards
Benzene Hazard
Exercise Caution

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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N

Sewer Assets
Serv Connection
Fitting
Offset 2.0

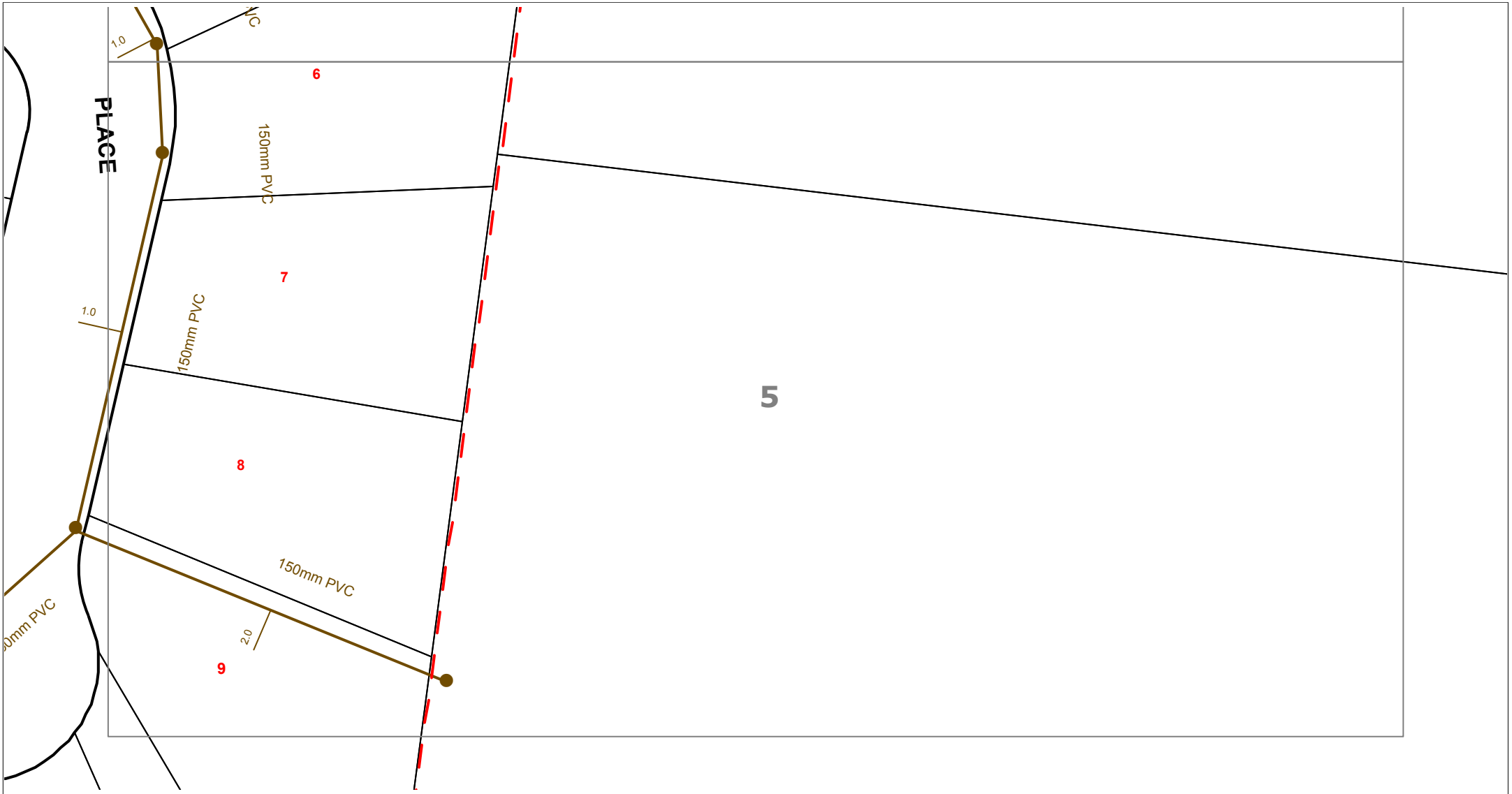
Gravity Sewer Assets
Pipe
Decom Pipe

Pressure Sewer Assets
Pipe
Decom Pipe

OH&S Hazards
Benzene Hazard
Exercise Caution

Sewer Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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N

Sewer Assets
Serv Connection
Fitting
Offset 2.0

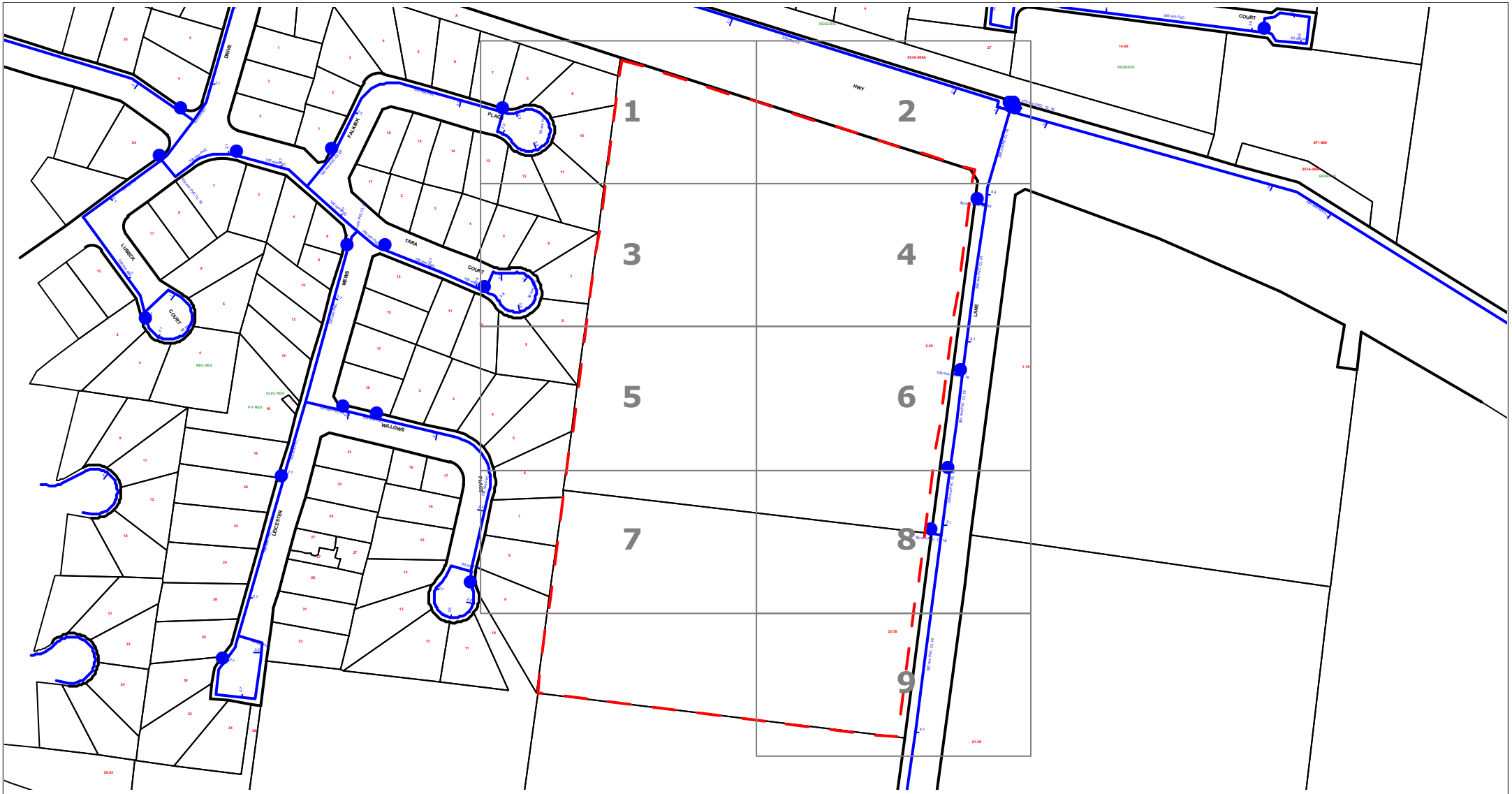
Gravity Sewer Assets
Pipe
Decom Pipe

Pressure Sewer Assets
Pipe
Decom Pipe

OH&S Hazards
Benzene Hazard
Exercise Caution

Water Assets

Sequence No: 48330361
Location: 2 Mollers Lane, Leopold, VIC 3224
Date: 07/10/2015



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Fitting
Offset 2.0
Serv Connection
Fire Serv Connection

Recycled Water Assets

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Fitting
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Service Connection

OH&S Hazards

Cracked AC Pipes exist. Exercise Caution

Water Assets

Sequence No: 48330361
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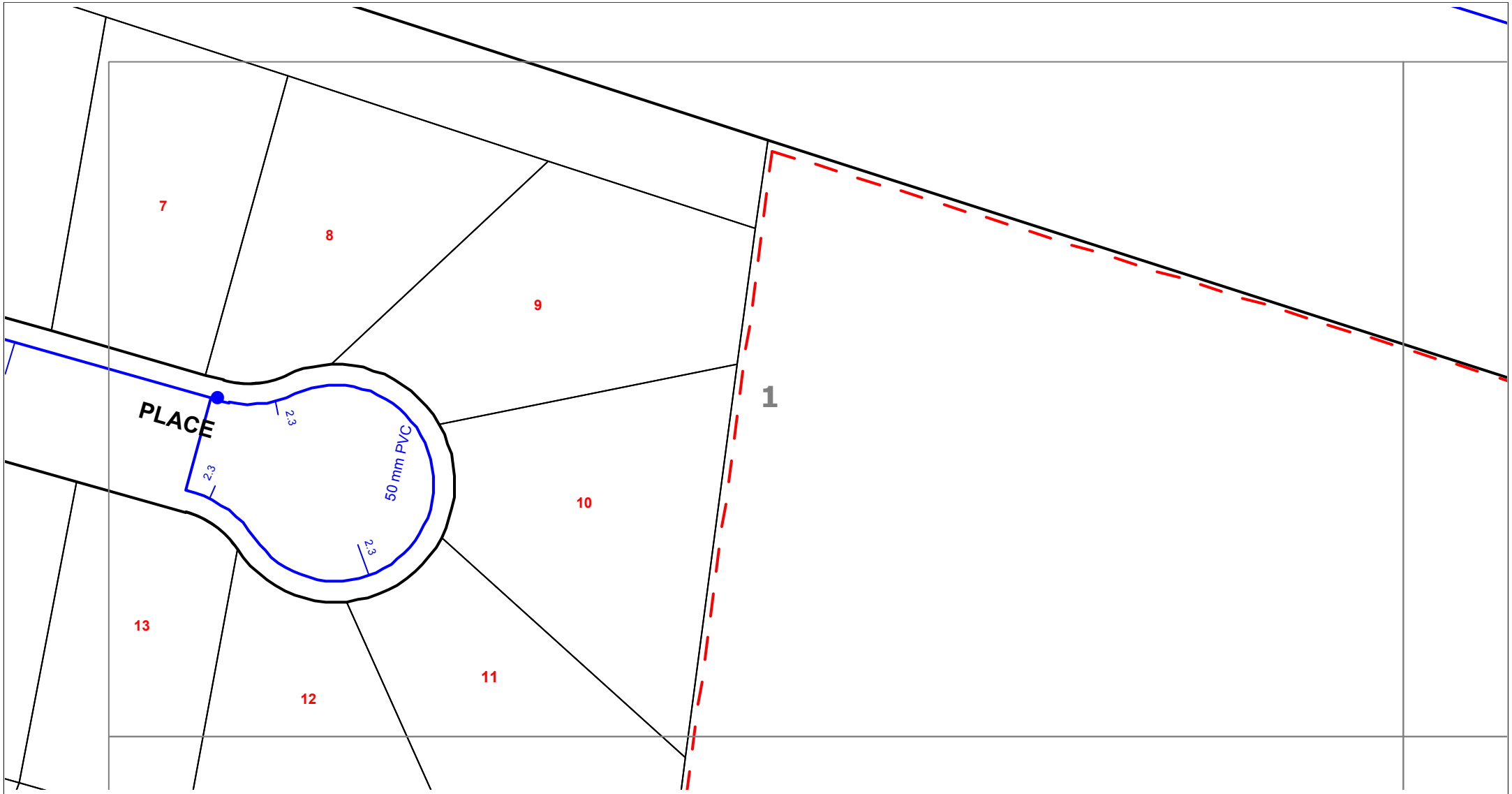

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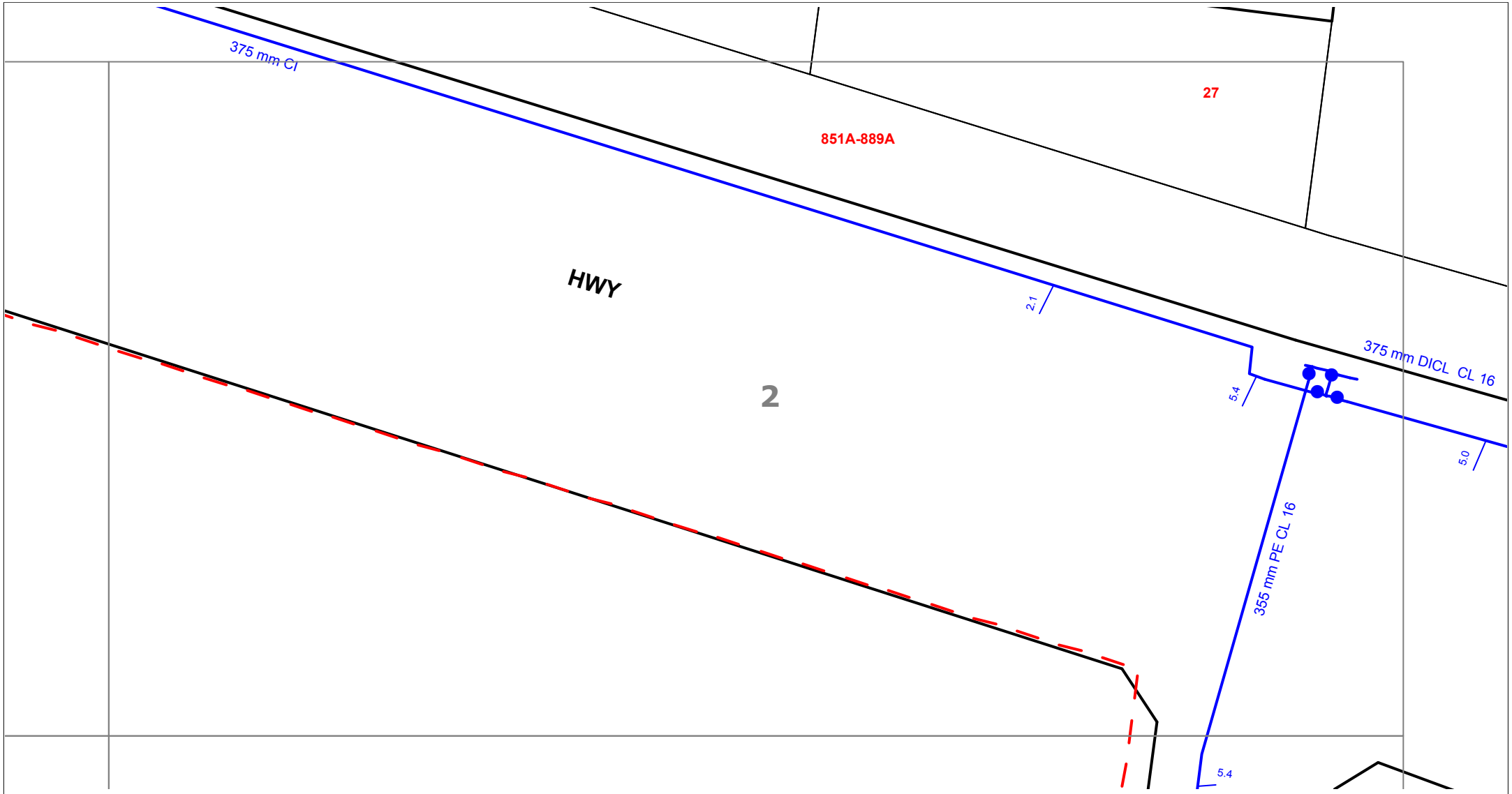

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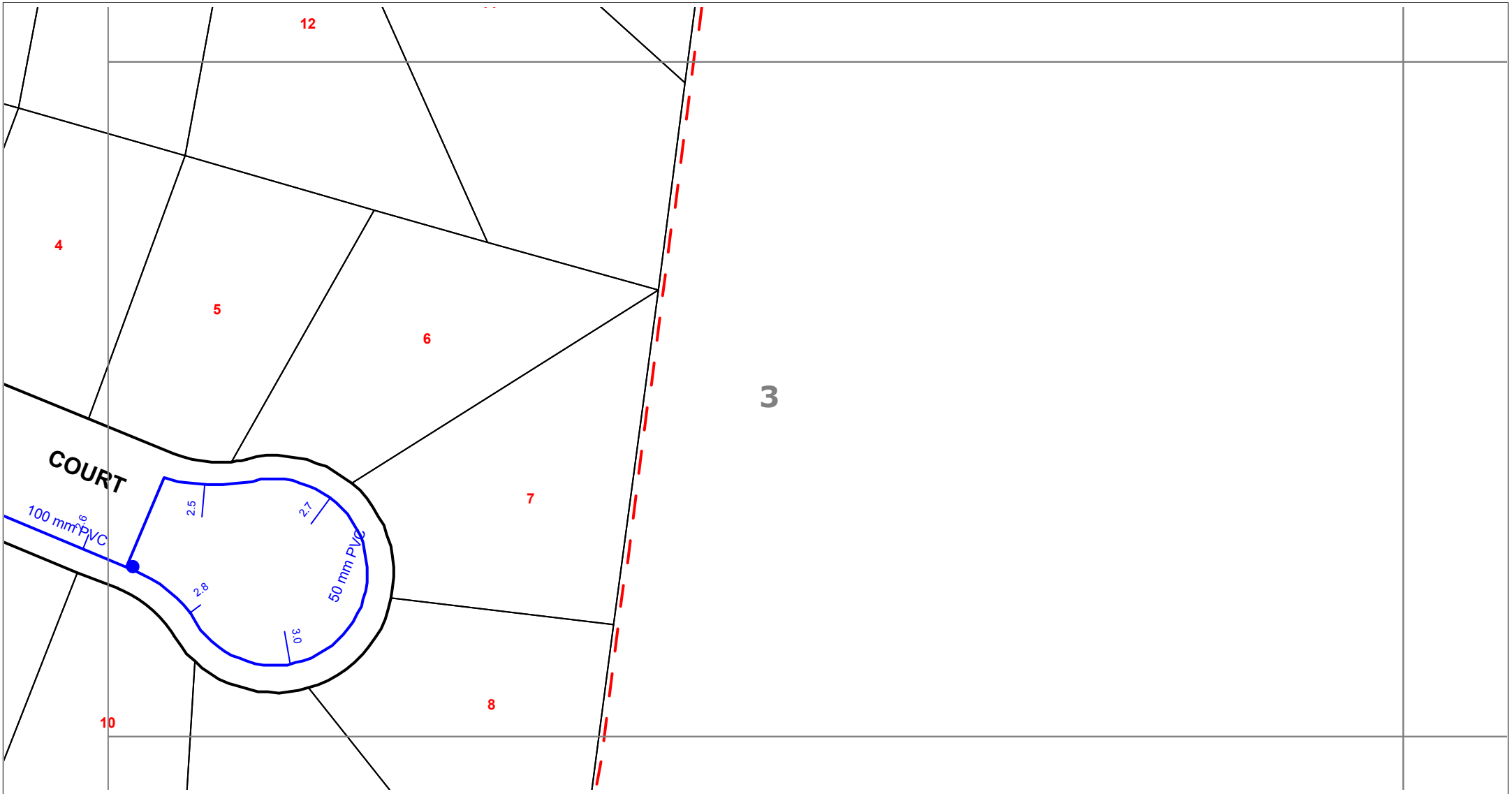

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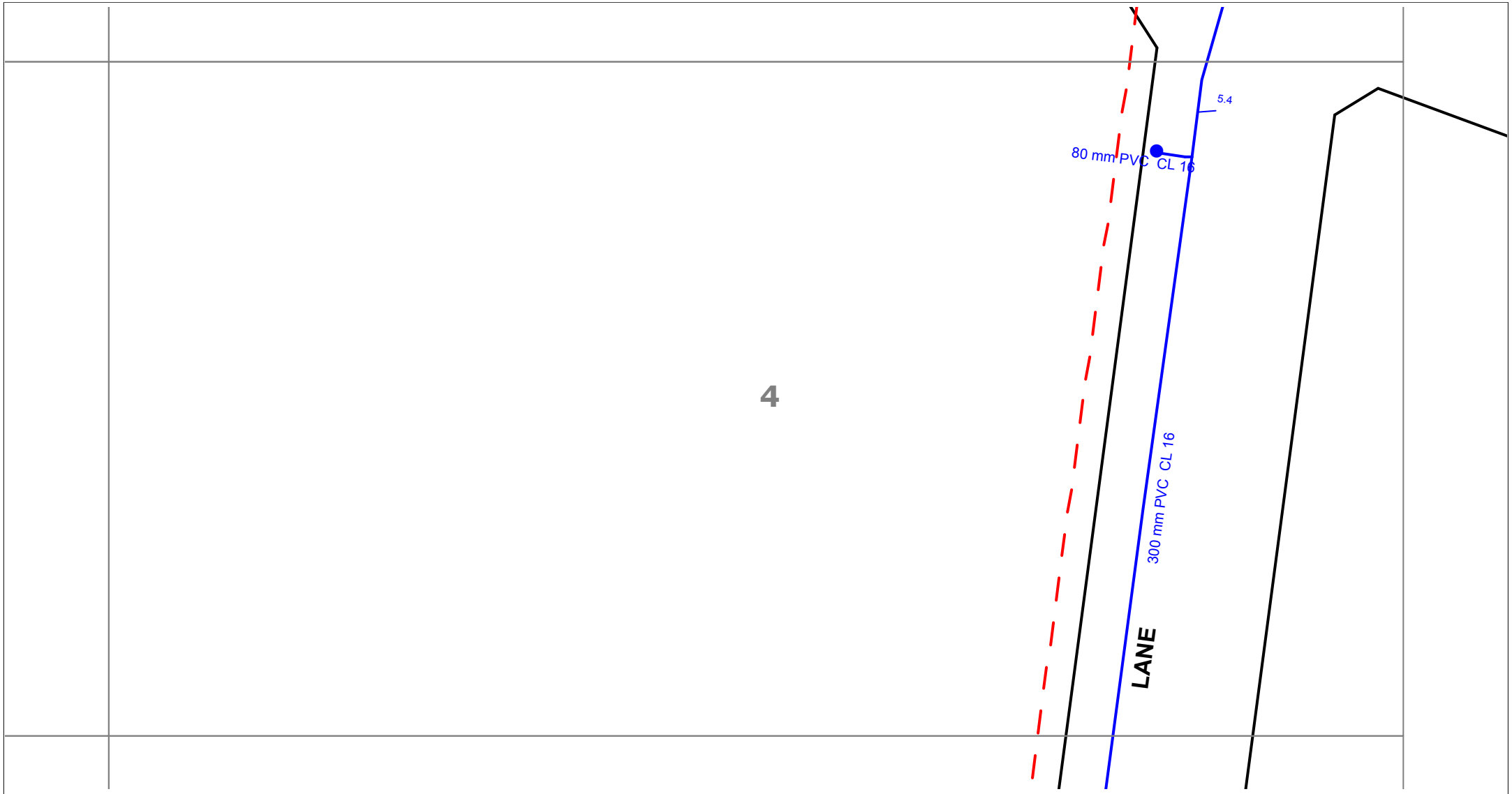

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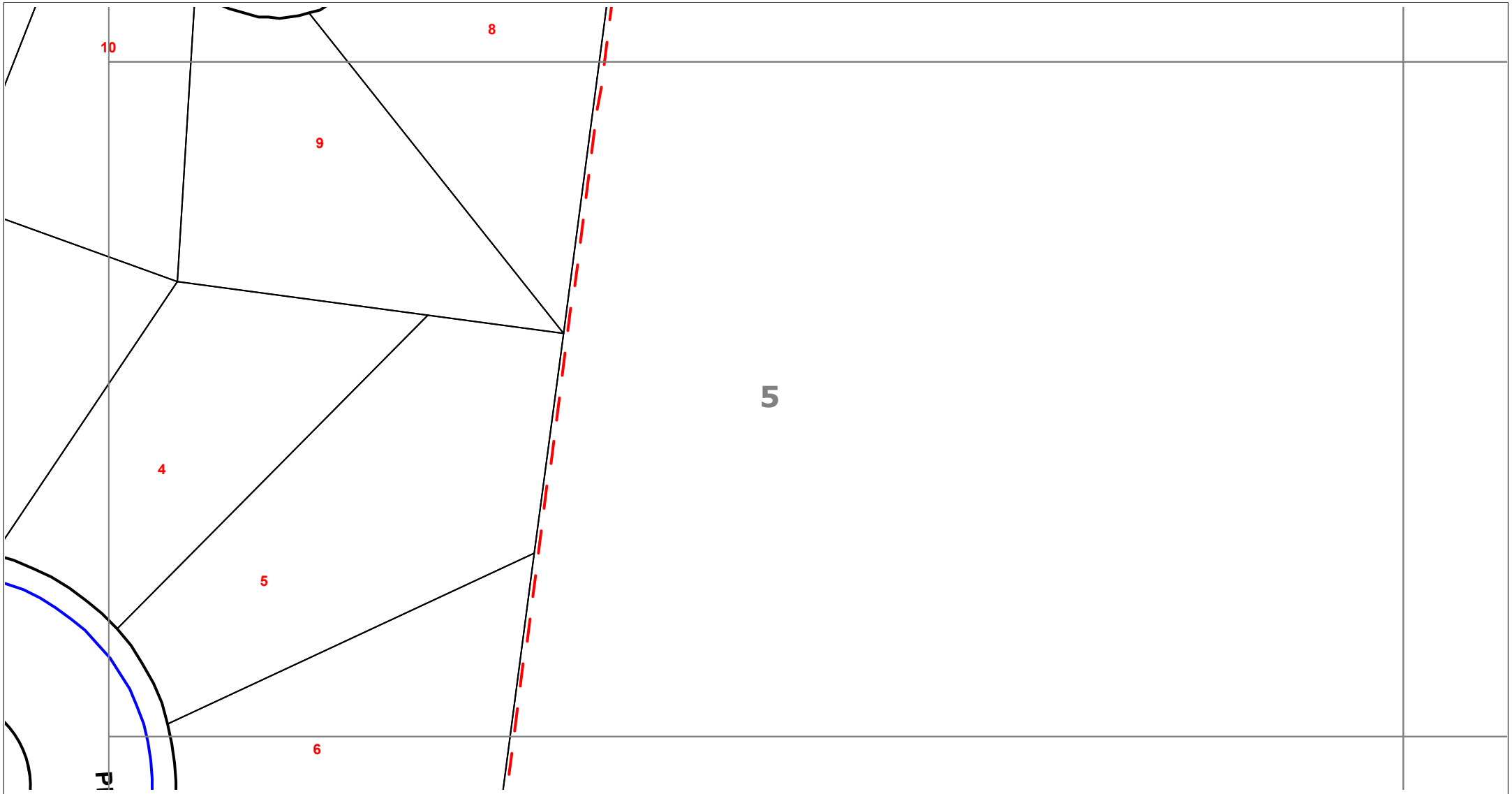

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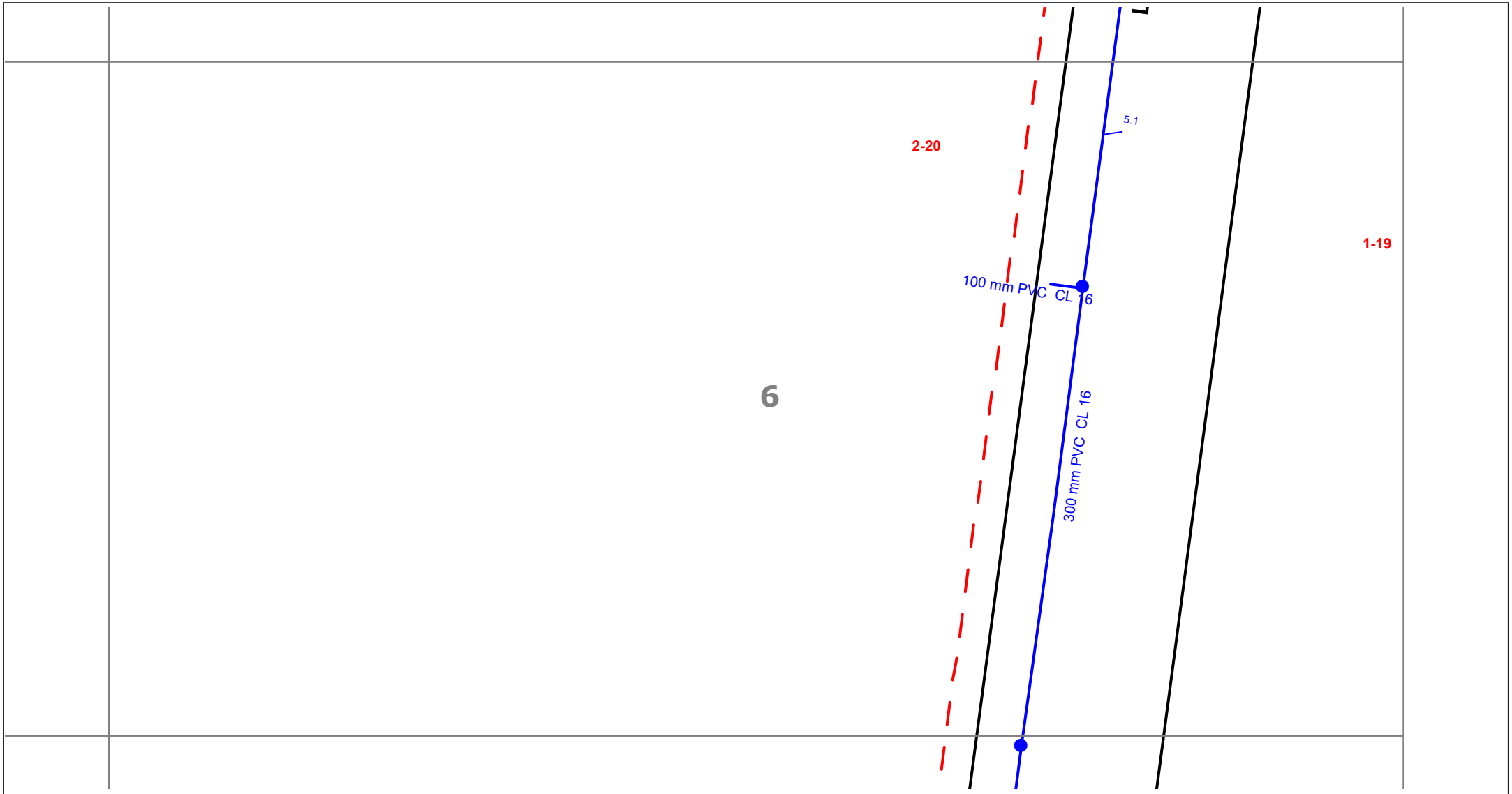

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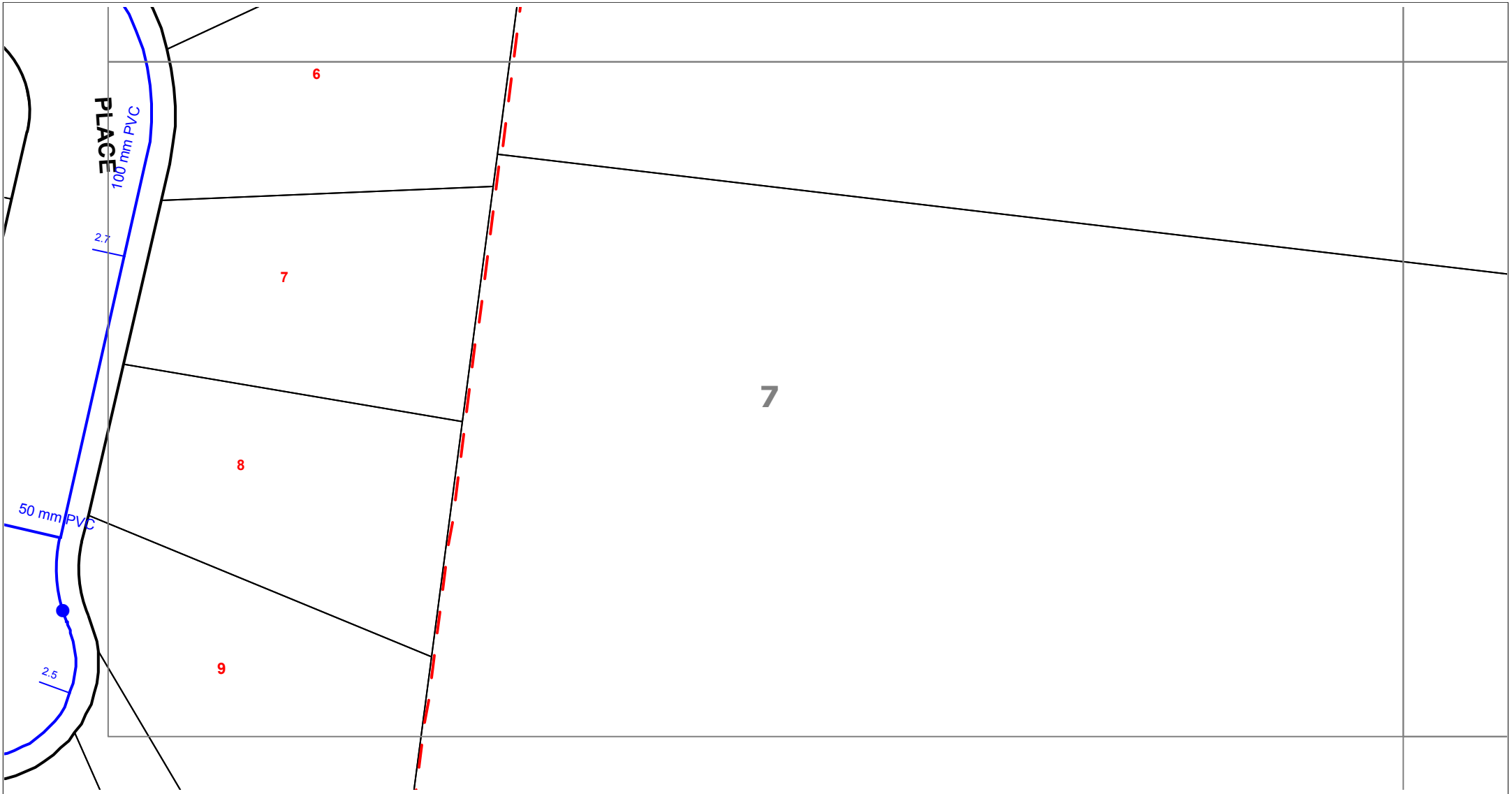

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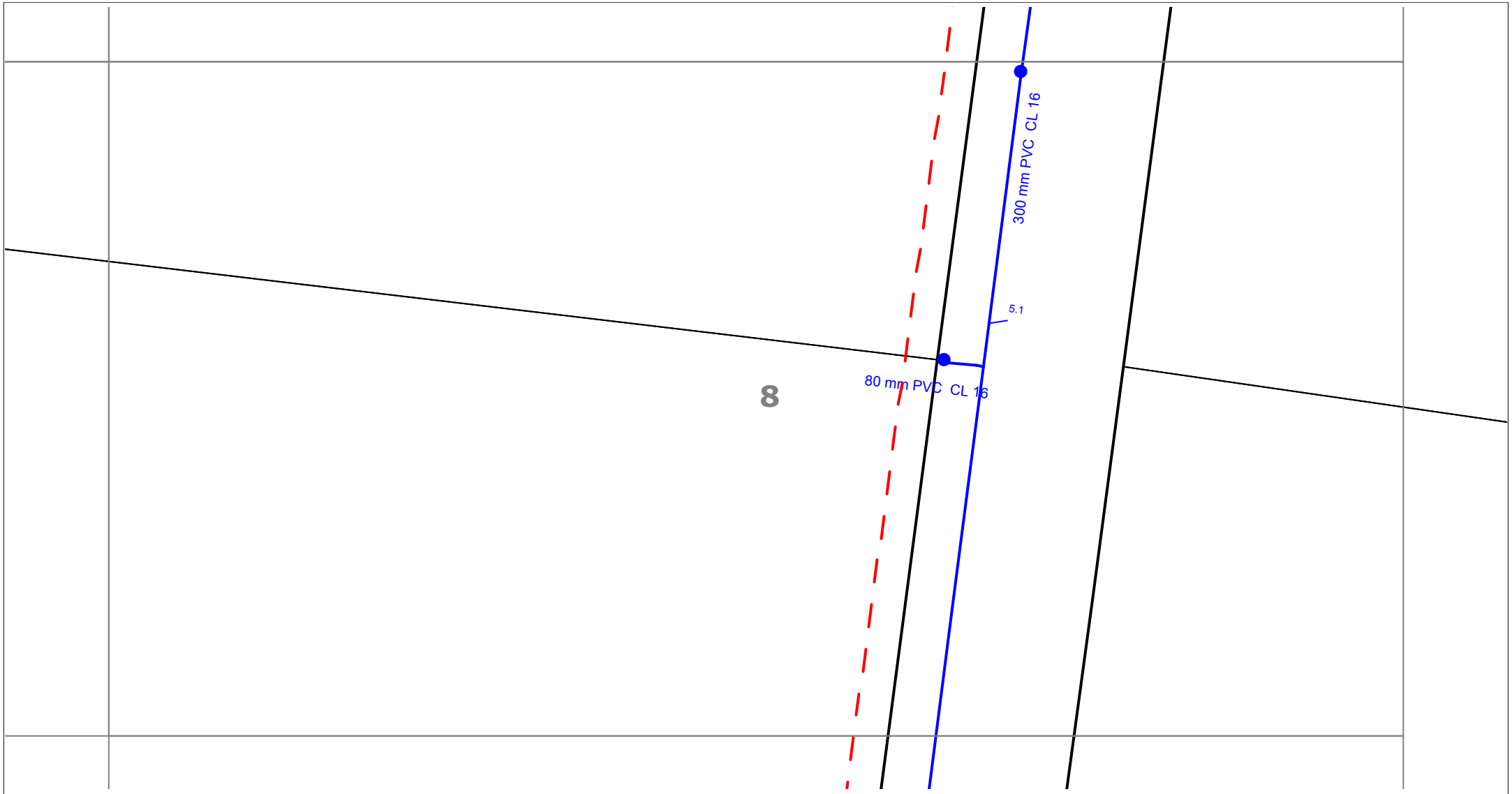

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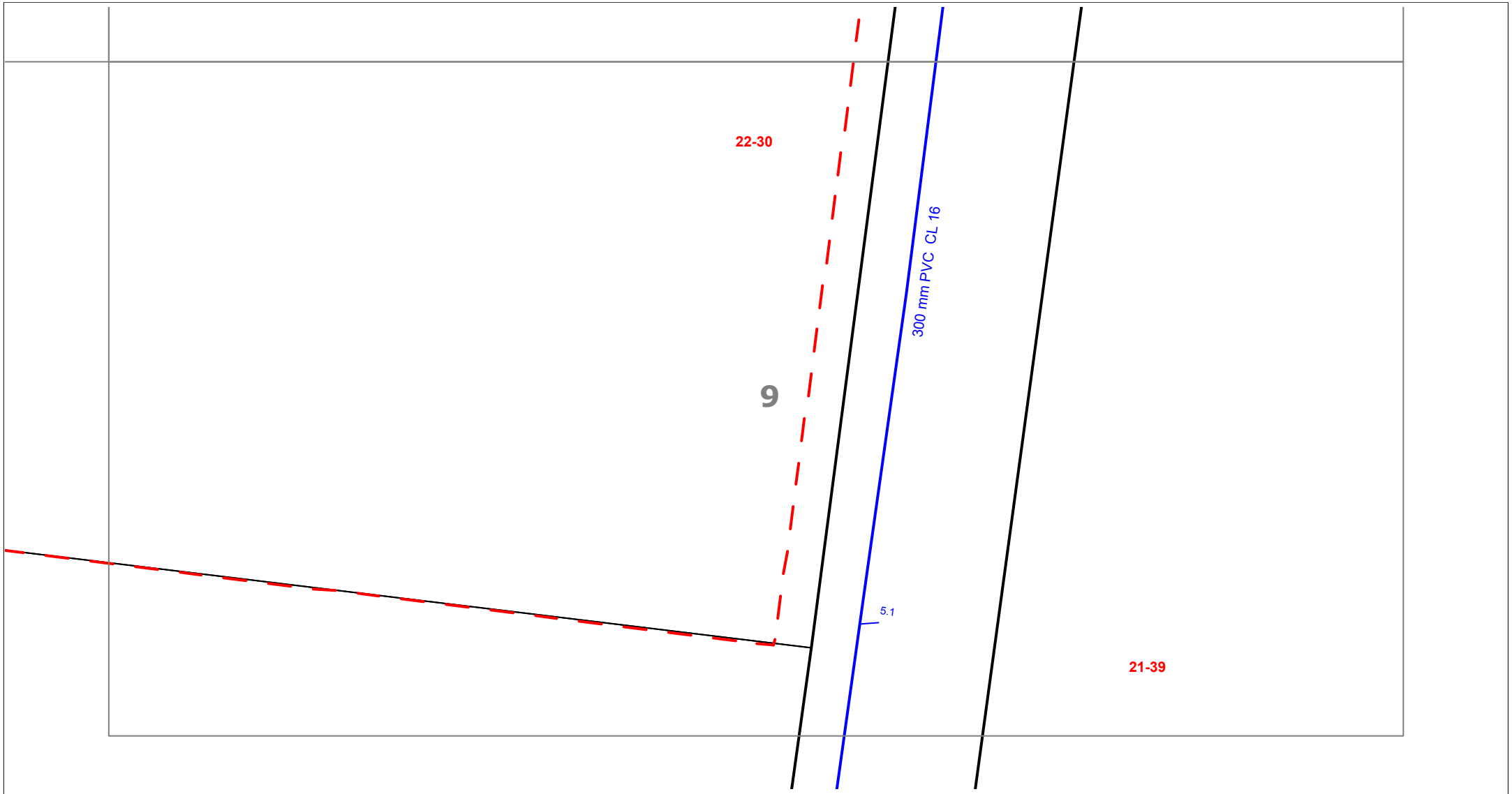

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CITY OF GREATER GEELONG

Postal Address
PO Box 104
GEELONG VIC 3220

Engineering Design
Ph: 5272 4345
Fax: 5272 4374

Internet
www.geelongaustralia.com.au
db4dig@geelongcity.vic.gov.au

Date: 07/10/2015

To:
Mr Seton Lillas
Environmental Site Assessments
2 Homestead Court
Highton, VIC 3216
Fax: Not Supplied
Email: seton@envirositeassessments.com

Dear Sir or Madam

The following is our response to your Dial Before You Dig enquiry.

Assets Affected: **Drainage**
Job No:
Sequence No: 48330356
Location: 2 Mollers Lane
Leopold, VIC 3224
Commencement Date:

Attached are copies of City of Greater Geelong stormwater assets in the area of your enquiry. This does not include private stormwater assets or connections.

Any works within the road reserve including the road, footpath or nature strip requires "Consent for Works Within Road Reserves" permit. These can be obtained from any City of Greater Geelong Customer Service Centres. Further information can be found on the City of Greater Geelong Website www.geelongaustralia.com.au search for "Road Opening Permit".

If you require further information please contact Engineering Design Department on 03 5272 4345.

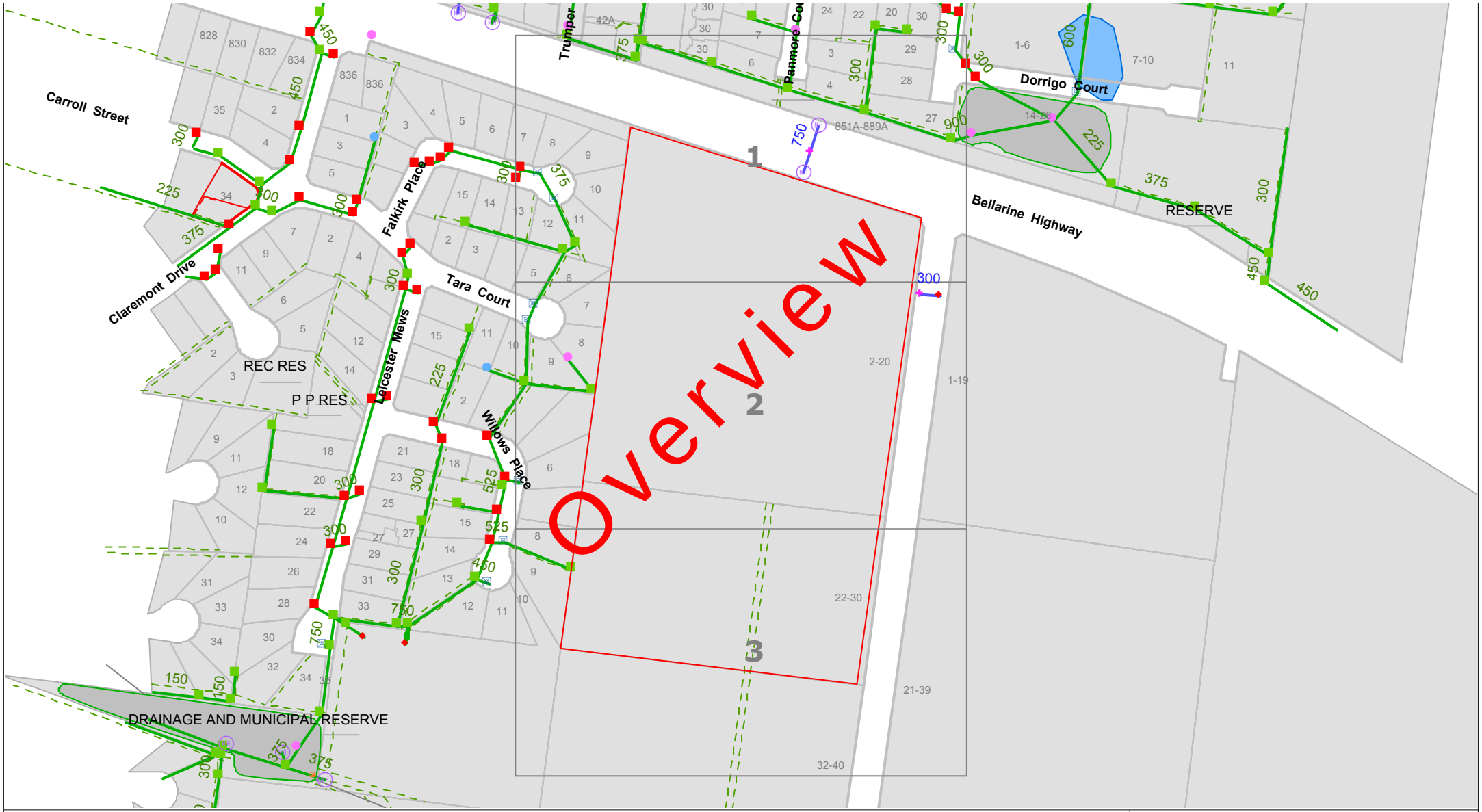
Important Notice: This document contains information that is intended for use only by the addressee. If you have received this document in error, you are advised that copying, disclosing or otherwise acting in reliance on this document is expressly prohibited. If you have received this document in error, please let us know by telephone and then dispose of the letter.

Damaged Infrastructure: Any damage to City of Greater Geelong Council's infrastructure should be reported immediately to the Call Centre on phone: 5272 5272.

Drainage

Sequence No: 48330356
Location: 2 Mollers Lane, Leopold, VIC 3224
Date Printed: 07/10/2015

CITY OF GREATER GEELONG



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Scale: 1:1000

N

Please use these plans in conjunction with *"A guide to reading City of Greater Geelong Stormwater Plans"* attached to your email.

DIAL BEFORE YOU DIG www.1100.com.au

Drainage

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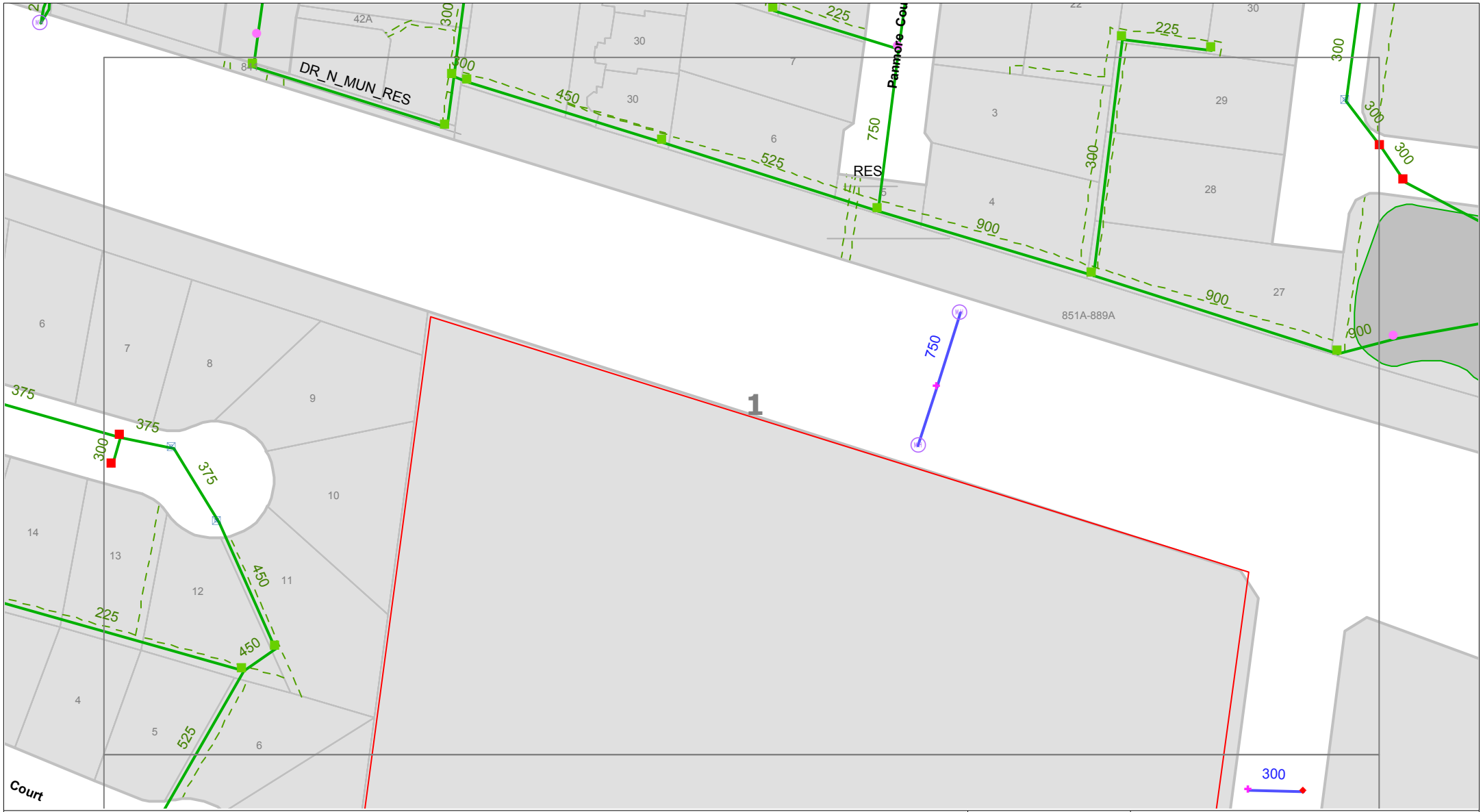
CITY OF GREATER GEELONG



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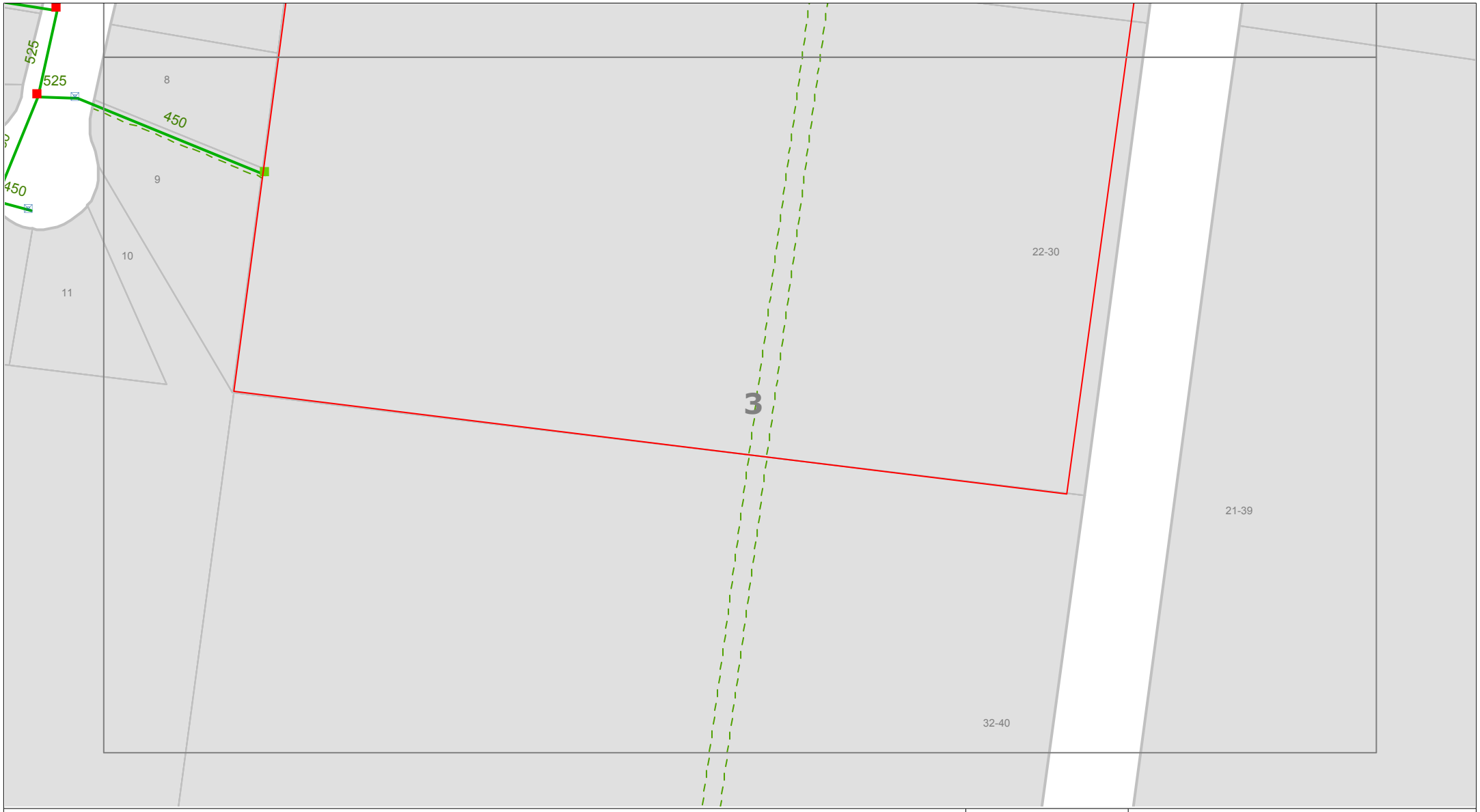

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DIAL BEFORE YOU DIG www.1100.com.au

CITY OF GREATER GEELONG

Postal Address
PO Box 104
GEELONG VIC 3220

Engineering Design
Ph: 5272 4345
Fax: 5272 4374

Internet
www.geelongaustralia.com.au
db4dig@geelongcity.vic.gov.au

A guide to reading City of Greater Geelong Stormwater Plans

Please use this legend in conjunction with the City of Greater Geelong Dial Before You Dig Drainage/Optic Fibre Plans.

If you have any questions regarding this Legend and its use, please contact the Engineering Design Unit on 5272 4345.

WARNING: This document is confidential and may also be privileged. Confidentiality nor privilege is not waived or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.
Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

Sequence Number: 48330359

Date Generated: 07/10/2015

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

Network Operations– Asset Analysis
Unit 9, 677 Springvale Road
Mulgrave, Victoria, 3178

Date: 07/10/2015
To: Mr Seton Lillas
Company:
Address: 2 Homestead Court
Highton, VIC 3216

ENQUIRY DETAILS
Location: 2 Mollers Lane, Leopold, VIC 3224
Sequence No.: 48330359
DBYD Reference: 9763144

In relation to your enquiry of the above address, Optus advises as follows:
The records of Optus disclose that there ARE underground FIBRE OPTIC TELECOMMUNICATIONS cables in the vicinity of the above enquiry as per the attached plan(s). This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION
Drawings and Plans provided by Optus are reference diagrams which were correct at the time the asset was built. Exact ground cover and alignments cannot be provided with any certainty as these may alter over time. Depths of Telecommunications plant vary considerably as do alignments. It is essential to uncover the asset and positively identify the assets exact location.
Optus plans are provided as a guide only and the completeness of the information cannot be guaranteed.

"DUTY OF CARE"
When working in the vicinity of Telecommunications plant you have a legal "Duty of Care" that must be observed.

It is the responsibility of the owner and any consultant engaged by the owner, including an architect, consulting engineer, developer and head contractor to design for minimal impact to Optus plant. Optus will provide assistance at this design stage through the provision of plans and sketches or consultation.

It is the owner's (or constructor's) responsibility to:-

a) Request plans of Optus plant for a particular location at a reasonable time before construction begins. If you have doubts about the presence of Optus assets we strongly recommend that you engage an Optus Accredited plant locator.

b) Visually locate Optus plant by hand digging or using non-destructive water jet method where construction activities may damage or interfere with Optus plant

c) Contact Optus Network Operations – Asset Analyst (details below) if Optus plant is wholly or partly located near construction activities

CRIMINAL CODE ACT 1995

The following is an extract from the Criminal Code Act 1995 and is applicable to Optus plant

Chapter 10 National infrastructure

Part 10.6 Telecommunications Services

Division 474 Telecommunications offences

Sect 474.6 Interference with facilities

1) A person is guilty of an offence if the person tampers with, or interferes with, a facility owned or operated by:
   (a) a carrier; or
   (b) a carriage service provider; or
   (c) a nominated carrier.

Penalty: Imprisonment for 1 year.

2) For the purposes of an offence against subsection (1), absolute liability applies to the physical element of circumstance of the offence, that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier.

3) A person is guilty of an offence if:
   (a) the person tampers with, or interferes with, a facility owned or operated by:
      i. a carrier; or
      ii. a carriage service provider; or
      iii. a nominated carrier; and
   (b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.

4) For the purposes of an offence against subsection (3), absolute liability applies to the following physical elements of circumstance of the offence:
   (a) that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier;
   (b) that the carriage service is supplied by a carriage service provider.

5) A person is guilty of an offence if:
   (a) the person uses or operates any apparatus or device (whether or not it is comprised in, connected to or used in connection with a telecommunications network); and
   (b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.

DAMAGE

ANY DAMAGE TO OPTUS NETWORK MUST BE REPORTED TO 1800 500 253 IMMEDIATELY

The owner is responsible for all plant damage when works commence prior to obtaining Optus Drawings, or failure to follow instructions.

Optus reserves the right to recover compensation for loss or damage to its cable network and other property including consequential loss

ASSET RELOCATIONS

You are not permitted to relocate or alter any Optus assets or network under any circumstance.

For all enquiries relating to the relocation of Optus assets please email Fibre.Locations@optus.net.au

ESSENTIAL PRECAUTIONS AND APPROACH DISTANCES

Note: If the following clearances cannot be maintained, please contact Optus Network Operations Asset Analysis Team for advice on how to resolve the situation.

1. On receipt of plans and before commencing excavation work or similar activities near Optus plant, carefully locate the plant first to avoid damage. Engage an Optus accredited locator to undertake exposure of the Optus plant when working within the following approach distances.

Where Optus plant is in an area where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1.0m must be maintained from where it could be reasonably presumed that plant would reside.

In non established or unformed reserves this distance must be at least 3 metres.

In country or rural areas which may have wider variations in reasonably presumed plant presence, the following minimum approach distance applies:

a) Parallel to plant: 5 metres

Note: **Indicated depths may vary significantly and pot-holing needs to be undertaken within extreme care**, **commonsense and using techniques least likely to damage cables. Potholing is only to be undertaken by an Optus accredited plant location contractor.**

If construction work is parallel to Optus plant, then carful hand digging or using non destructive water jet method (pot holing) at least every 5m is required to establish the location of the plant, confirming the location of the plant prior to work commencing.

Under no circumstances is crossing of Optus plant to be performed without first exposing the Optus plant and having an Optus representative present onsite.

2. Maintain the following minimum clearance between construction activity and the actual location of Optus plant.

Jackhammers / Pneumatic Breakers	Not within 1.0m of actual location
Vibrating Plate or Wacker Packer Compactor	Not within 0.5m of actual location 300mm compact clearance before compactor can be used across Optus ducts 750mm compact clearance cover before compactor can be used across Optus *Direct Buried* cable
Boring Equipment **(in-line, horizontal and vertical)**	Not within 5.0m of actual location without Optus representative onsite Constructor to hand dig or non-destructive water jet method (pot holing) and expose the Optus plant Not to cross the Optus plant without first exposing the plant at the crossing point and without Optus representative onsite
Heavy vehicle Traffic (over 3 tonnes)	Not to be driven across Optus ducts or plant with less than 600mm of cover Depth to be verified via hand digging
Mechanical Excavators, Farm ploughing, Boring, Tree removal, fencing	Not within 1.0m of actual location Constructor to hand dig or use non-destructive water jet method (pot holing) and expose plant

All Optus pits and manholes should be a minimum of 1.0m in from the back of kerb or within 15m of street intersection after the completion of your work.

All Optus conduit should have the following minimum depth of cover **after the completion of your work**:-

- **Footway 600mm**
- **Roadway 1000mm at drain invert and at road centre crown**

In cases where it is considered that these clearances cannot be maintained at the completion of works advice is to be sought form the Optus Damages and Relocations Team

FURTHER ASSISTANCE

Assistance can be obtained by contacting Optus Network Operations Asset Analysis on **1800 505 777**

Where an on-site location is provided, the owner is responsible for all costs associated with hand digging or use of non-destructive water jet method (pot holing) to visually locate and expose Optus plant.

If plant location drawings or visual location of Optus plant by digging reveals that the location of Optus plant is situated wholly or partly where the owner plans to work, then Optus Damages and Relocates Team must be contacted through Optus Network Operations Asset Locations to discuss possible engineering solutions.

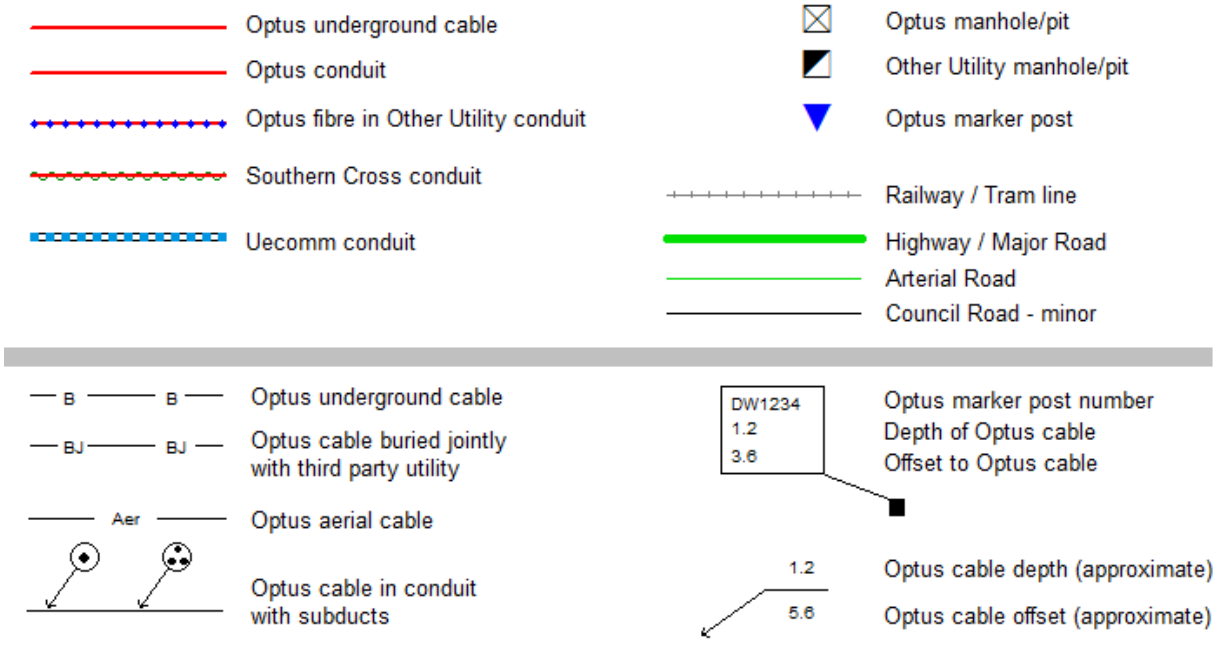
PRIVATE RESIDENTIAL LANDOWNERS and RURAL LANDOWNERS

Where Optus owned cable crosses private residential property or agricultural land, Optus may provide a once off free onsite electronic cable location. Optus Network Operations Asset Analyst will provide assistance in determining whether a free on-site location is required.

Please note:

- The exact location, including depth of cables can only be verified by pot holing which is not covered under this service
- This service is only available to assist private residential land owners and rural land owners
- The service covers one hour onsite only. Additional time will be charged at the current nominal rate.

OPTUS ENGINEERING DRAWING SYMBOLS



BARWON ELECTRICITY SUPPLY BRANCH

Date 12th July 1976

UNDERGROUND CABLE SERVICE RECORD

M.132

Name of Owner: Lutheran Church

Address of Owner: Mollers Lane LEOPOLD

(Sec.) Mr Pearce 71 The Terrace Ocean Grove

Address of Installation: Mollers Lane LEOPOLD

Size & Type of Cable: 19/083 Alum B/W (3 wire)

Method of Laying: 2" PVC UG Pipe

Cable Installed by: ALLEN PAECH 14 Gallois Gardens LEOPOLD

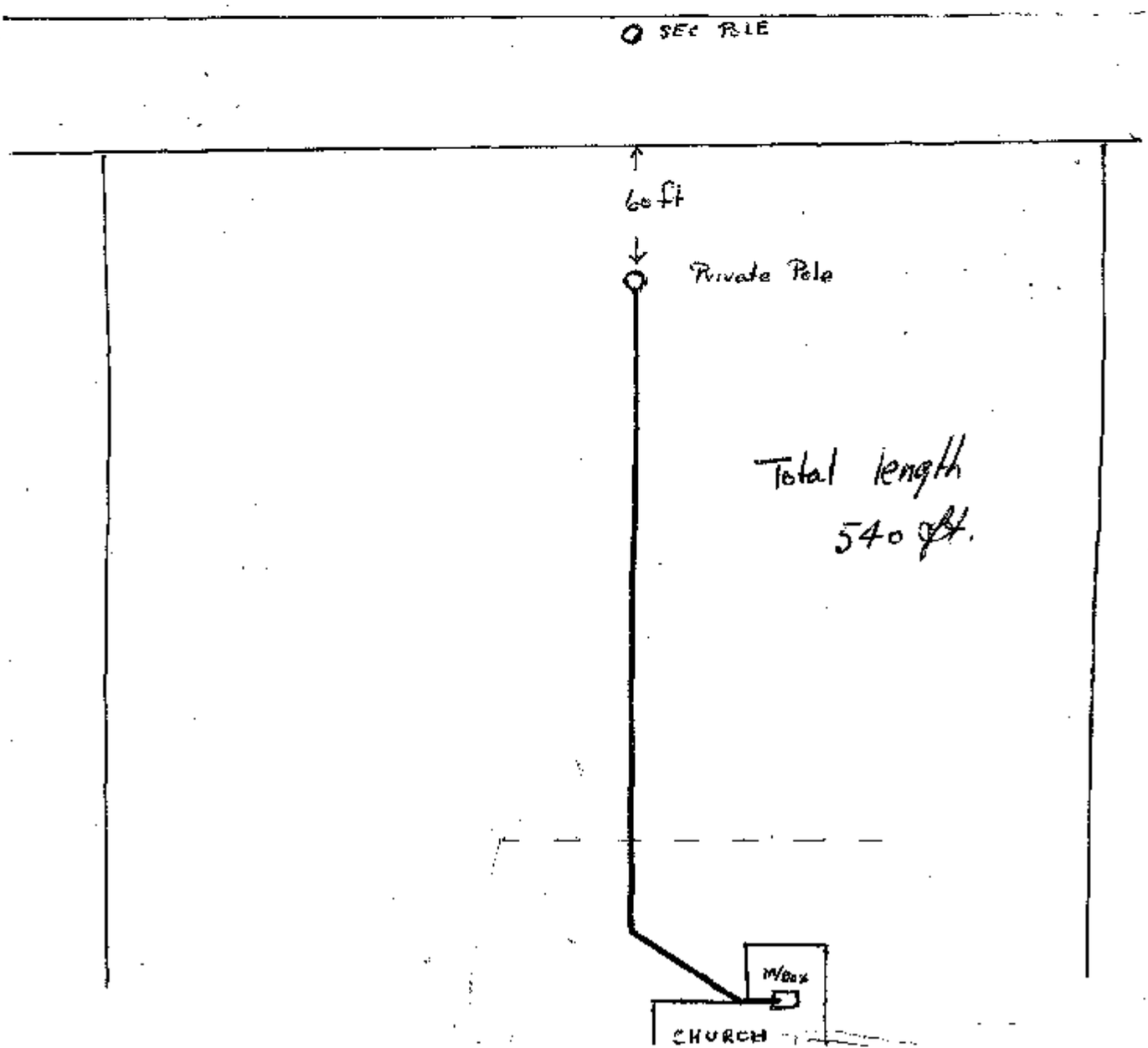
Cable Inspected by: B Holman 13/7/76

Remarks:

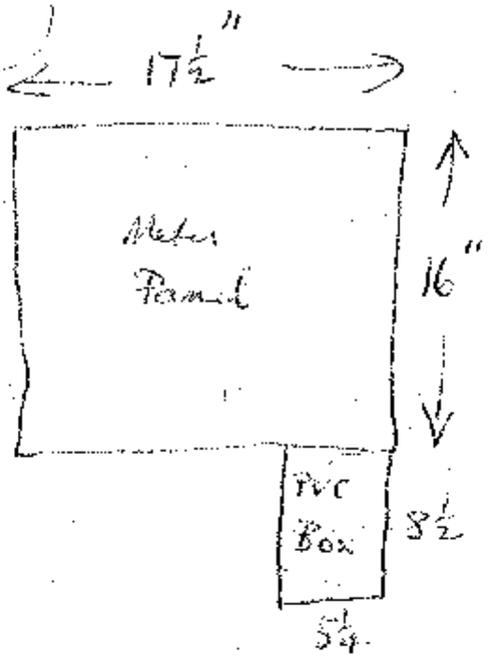
Equivalent size and length of overhead service (for refund)

60 FT 3x7/044 N-S NO REFUND

DIAGRAM



Switchboard
400 V Power & One Starter Motor
400 V light
Nothing



150
10
17
10
187
3
561
20
541

ROUTE PLAN UNDERGROUND SERVICE CABLE

mjw/pc 16/7/96

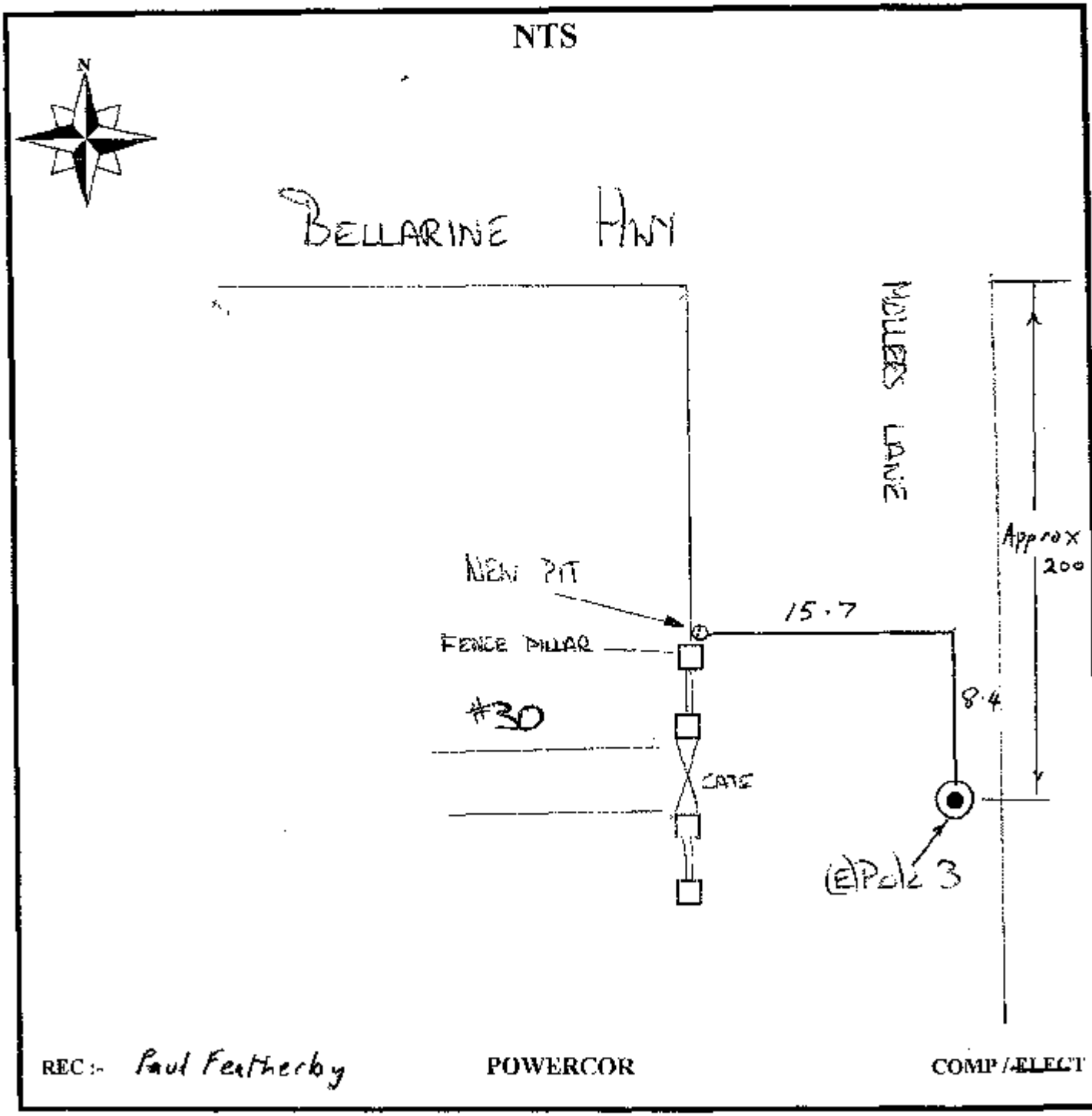
FILE _____ DRP _____ LV RETIC 0979 UG# M972.

ADDRESS #30 Mollers Lane

Leopold

CABLE SIZE 2 X 16 mm sq DATE 29, 8, 96

NTS



REC :- Paul Featherby POWERCOR COMP / ELECT

CONTACT OFFICER :- MJ WILLIAMS TELEPHONE 797263

UNDERGROUND REGISTER PROGRESS SHEET
POWERCOR

FILE LV REINC 0979 UG# M972.

Address 30 MULLERS LANE LEOPOLD

SERVICE CABLE (2) 3 4 Wire (16) 50 185 240 mm TO (Pit) Pillar SW/B

Customer LIBFVOORT Responsible Officer BJD Ext 236

Rec PAUL FEATHERBY Phone _____

Rec's Address PO BOX 1166 OCEAN DRIVE P / Code _____

NIW Received 26/8/96 URPS Raised 27/8/96

Comp ~~/ Elect~~ _____ Civil Works By POWERLOR

Remarks:- _____

Function Code 151	F/Code	Res Centre	Job No.
Units	107	59944107	C8CG.....
Business	108	108	" .....
New Service	112	112	" 11200
Replacement Service	151	151	C8CG15100

ORDER TO UNDERTAKE WORKS SIGNED :- YES/NO

COSTS DETERMINED BY :- FIXED CHARGES. 16mm / 50mm ☐ FILE ☐

FIXED CHARGES TO BE COLLECTED BY :- RESPONSIBLE OFFICER / MJW

MJW/PC 16/7/96

Advised Shire ✓ Telstra ____ RCA ____ Water uthority ____

Gas & Fuel ____ REC ____ Civil Works Contractor ✓ Construction ✓

Drawing Office ✓ Date 2/9/96 Completed into PC Date 2/9/96

PIT PLAN TEMPLATE

40 MOLLERS RD

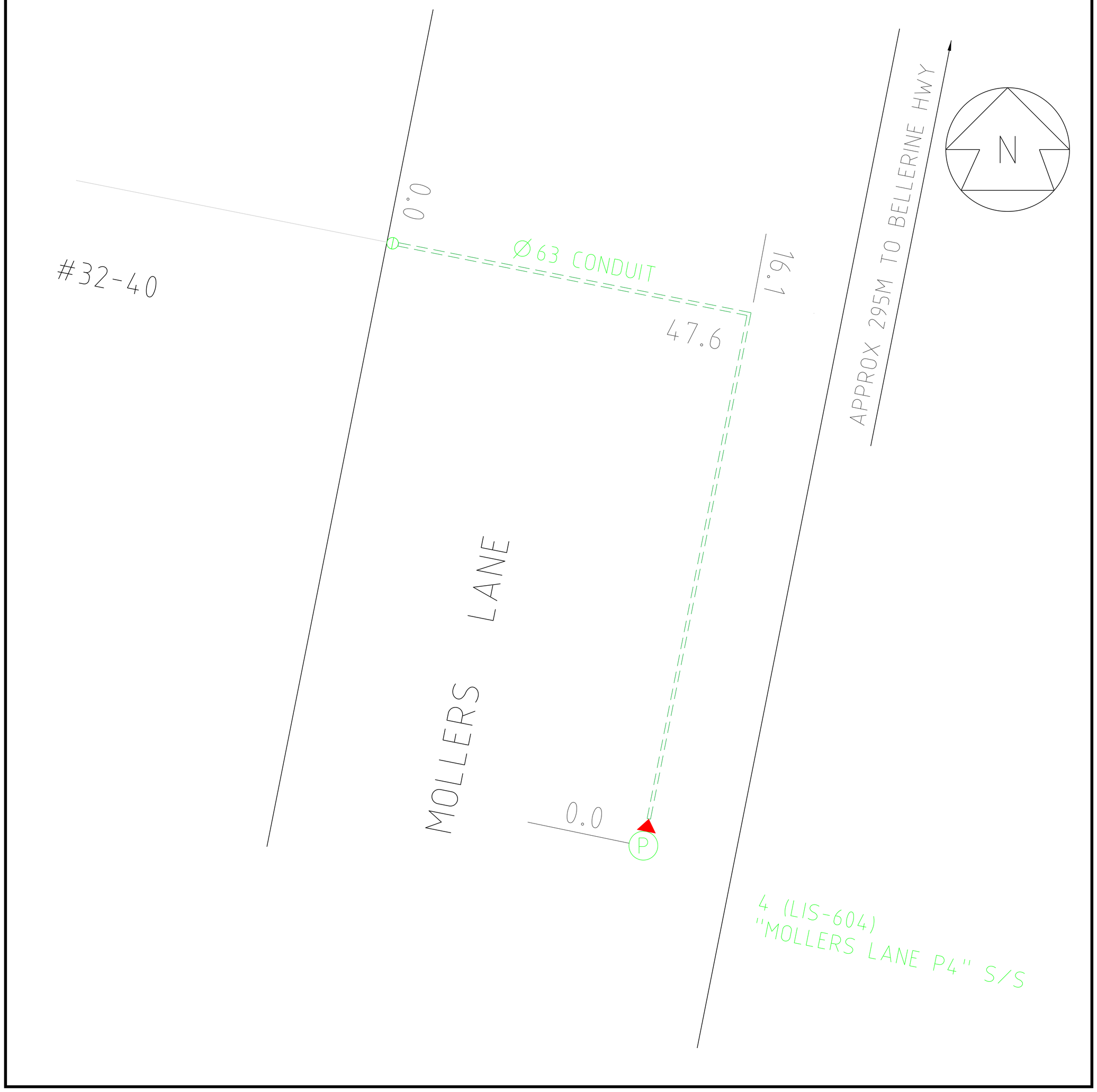
LEOPOLD

Powercor AUSTRALIA

ABN 89 064 651 109

Installation Date 16 /05/ 95 CABLE SIZE 35.4/C.LV

Not to Scale	SERVICE PIT		HV POLE		LV POLE	
	U/G CABLE		SUBSTATION	P	CUSTOMER PILLAR	
	O/HEAD CABLE					



POWERCOR USE ONLY

PM ORDER NUMBER	5053575	LIS NUMBER	604-8121
CPM REF	301820133		
BUSINESS CENTRE	GEELONG		
MELWAYS REF	468-H5		

POWERCOR CONTACT CENTRE 132 206

004251507

DRAWING NUMBER

210 x 297

TEMPLATE 06-F-170 REFER TO DD065

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CitiPower Pty
ABN 76 064 651 056
www.citipower.com.au

Head Office: 40 Market Street
Telephone: (03) 9683 4444 Facsimile: (03) 9683 4499 DX 433 Melbourne
Postal Address: Locked Bag 14090 Melbourne Victoria 8001 Australia

Powercor Australia
ABN 89 064 651 109
www.powercor.com.au

07/10/2015

Mr Seton Lillas
Environmental Site Assessments
2 Homestead Court
Highton VIC 3216

Reference Number 48330357

Dear Customer

Thankyou for your enquiry on 07/10/2015 regarding the work at:
2 Mollers Lane Leopold

Our records have revealed that there are underground assets with **missing details** within the area of your request.

To ensure that your proposed works do not impact on safety, our assets or current regulations, **no work is to be undertaken in the vicinity of our assets** until the completion of a further technical assessment of the area.

This technical assessment can be arranged by completing a **Request for Site Visit** form available on the CitiPower and Powercor website shown above or by using the following path:

www.citipower.com.au/working-with-us/suppliers/online-permit-applications/site-visit/

If you need assistance in determining if you need a site visit please call:

CitiPower on 131 280

Powercor on 132 206

Upon receipt of your **Request for Site Visit** form you will be contacted by a responsible officer to assess your requirements. A site visit will be organised if required. During the site visit we will determine the location of our assets and any Permit to Work conditions applicable to your works. We will also be able to provide further details of any additional works which may be required.

Please note that the Permit to Work site visit timeframes are subject to enquiry volumes and specific site locations, therefore it may require up to 10 working days to contact you and arrange a site visit

Regards,

Rod Jenkin

Dial Before You Dig (DBYD)
Electrical Asset Location Information

CitiPower/Powercor
Locked Bag 14090, Melbourne VIC 8001
General Enquiries Telephone: 132 206

To: ('Enquirer')
Environmental Site Assessments - Mr Seton Lillas
2 Homestead Court
Highton VIC 3216

Enquiry Details

Utility ID	50022
Sequence Number	48330357
Enquiry Date	07/10/2015 08:30
Response	**STOP WORK - Missing Information**
Address	2 Mollers Lane Leopold
Location in Road	Not Supplied
Activity	Vertical Boring

Enquirer Details

Customer ID	1163564		
Contact	Mr Seton Lillas		
Company	Environmental Site Assessments		
Email	seton@envirositeassessments.com		
Phone	0433747187	**Mobile**	Not Supplied

Enquirer Responsibilities

This notification is valid for 14 days from the issue date. CitiPower/Powercor assets are critical infrastructure and great care must be taken to avoid asset damage and risk to public safety. The information supplied in the DBYD Response is intended to be indicative only. External parties should make their own enquiries to ensure the accuracy of the information, including but not limited to:

- Check that the location of the dig site indicated is correct, if not you must submit a new enquiry.
- Should your scope of works change or the plan validity dates expire, you must submit a new enquiry.
- If you do not understand the plans provided please contact CitiPower/Powercor prior to works commencing.
- Always perform an onsite inspection to establish the presence of assets.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.

Report any asset damage immediately on 132 206. Note: CitiPower/Powercor reserves the right to recover compensation for damages.

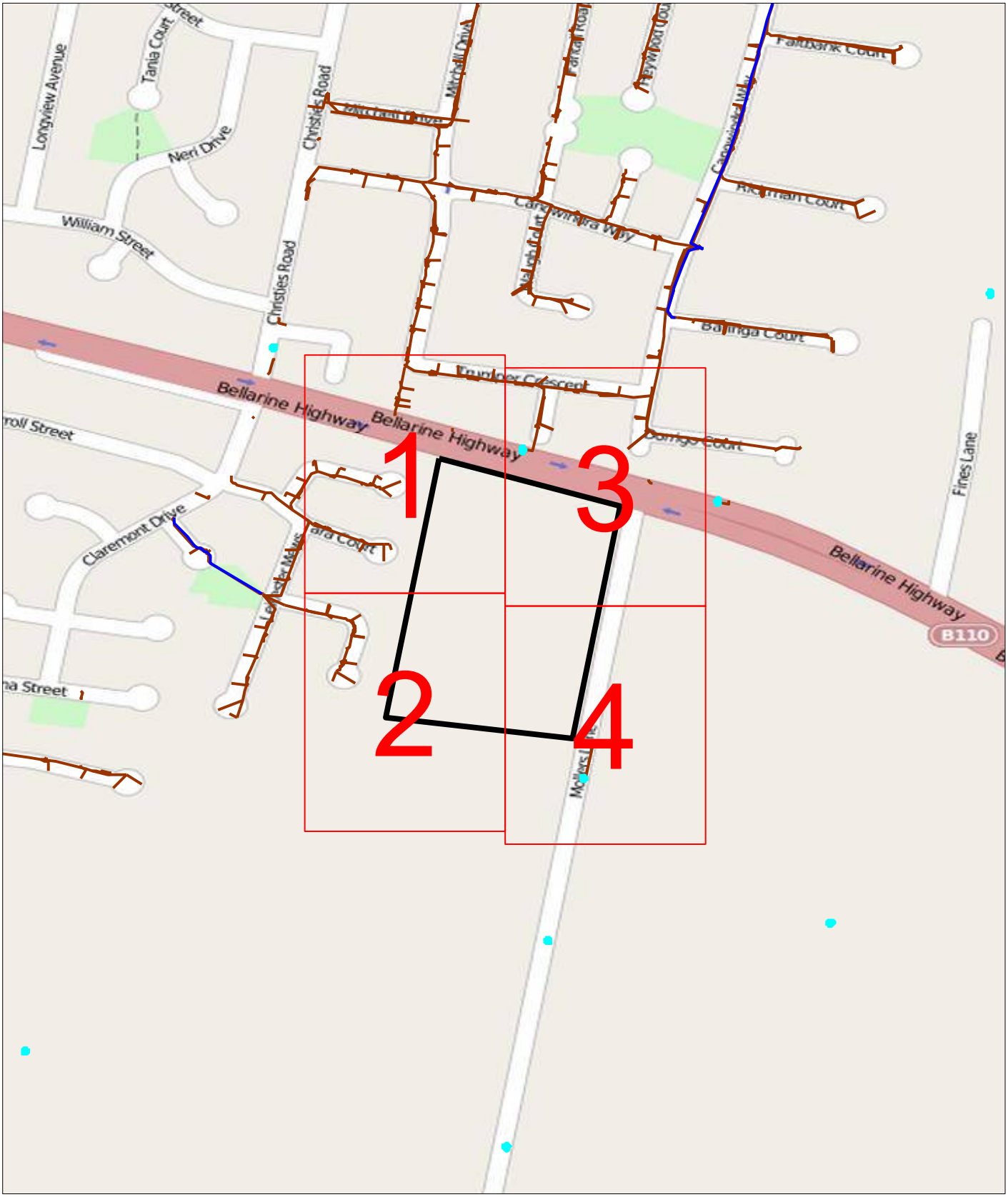
CITIPOWER Powercor AUSTRALIA

Locality Map

Sequence No: 48330357

2 Mollers Lane Leopold

MAP IS A GUIDE ONLY- REFER TO CABLE PLANS FOR ACCURATE ASSET LOCATIONS



LEGEND:

- DBYD Work Area
- SWER Substation
- High Voltage Cable
- Communication Cable
- Zone Substation
- Distribution Substation
- Low Voltage Cable
- Earth Cable

This map represents the location of the submitted DBYD Work Area and all CitiPower/Powercor responses are based on this location. It is the responsibility of the enquirer to ensure the accuracy of the DBYD Work Area.

0 0.06km

Imagery sourced from Open StreetMaps

Powered by dbyd

Map 1

Sequence No: 48330357

2 Mollers Lane Leopold

MAP IS A GUIDE ONLY- REFER TO CABLE PLANS FOR ACCURATE ASSET LOCATIONS

LEGEND:

DBYD Work Area
SWER Substation
High Voltage Cable
Communication Cable
Pole (Subtransmission)
Pole (LV)
Zone Substation
Distribution Substation
Low Voltage Cable
Earth Cable
Pole (HV)
Property Boundary

This map represents the location of the submitted DBYD Work Area and all CitiPower/Powercor responses are based on this location. It is the responsibility of the enquirer to ensure the accuracy of the DBYD Work Area.

0 0.01km

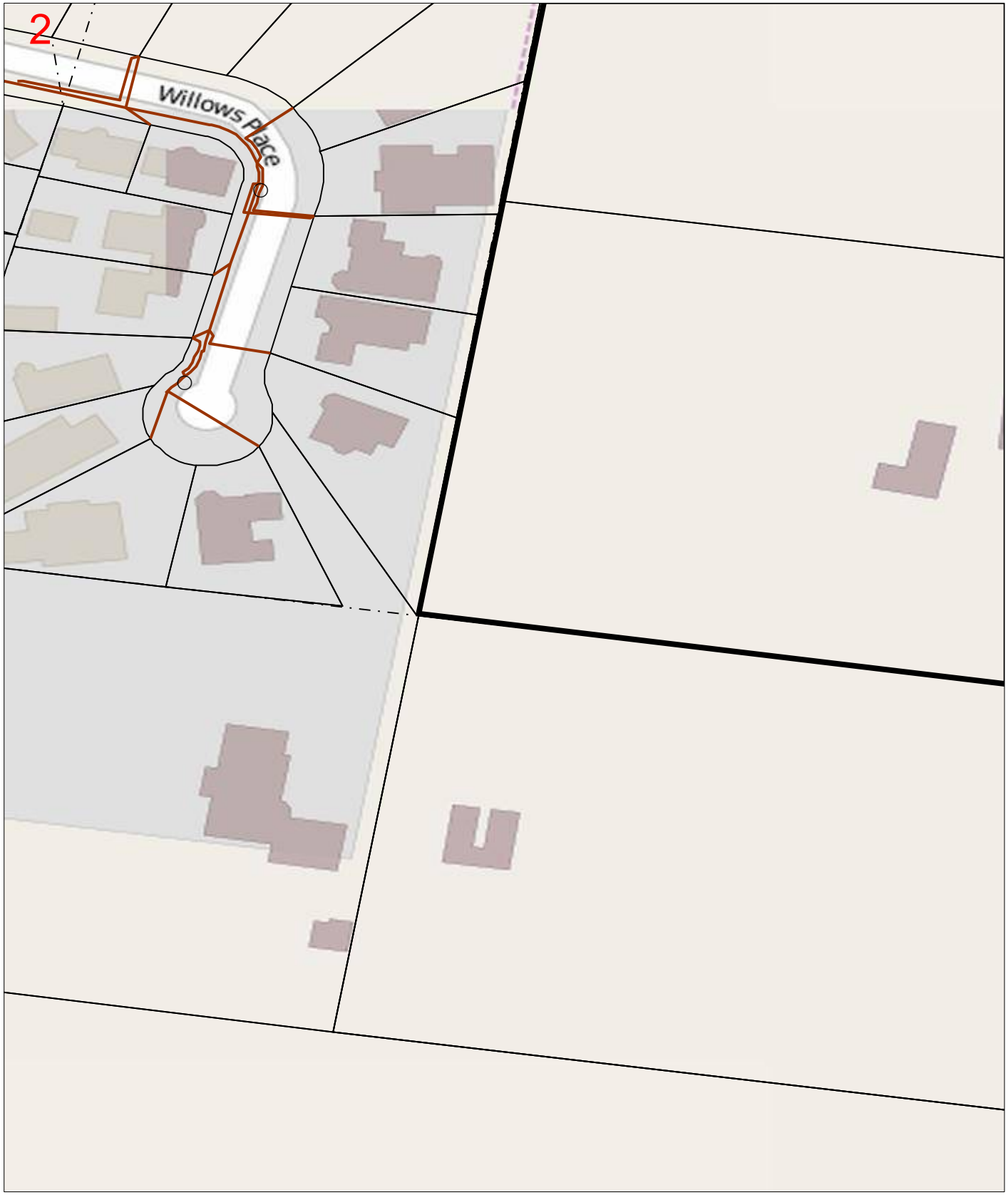
Powered by dbyd

Map 2

Sequence No: 48330357

2 Mollers Lane Leopold

MAP IS A GUIDE ONLY- REFER TO CABLE PLANS FOR ACCURATE ASSET LOCATIONS



LEGEND:

DBYD Work Area
SWER Substation
High Voltage Cable
Communication Cable
Pole (Subtransmission)
Pole (LV)
Zone Substation
Distribution Substation
Low Voltage Cable
Earth Cable
Pole (HV)
Property Boundary

0 0.01km

This map represents the location of the submitted DBYD Work Area and all CitiPower/Powercor responses are based on this location. It is the responsibility of the enquirer to ensure the accuracy of the DBYD Work Area.

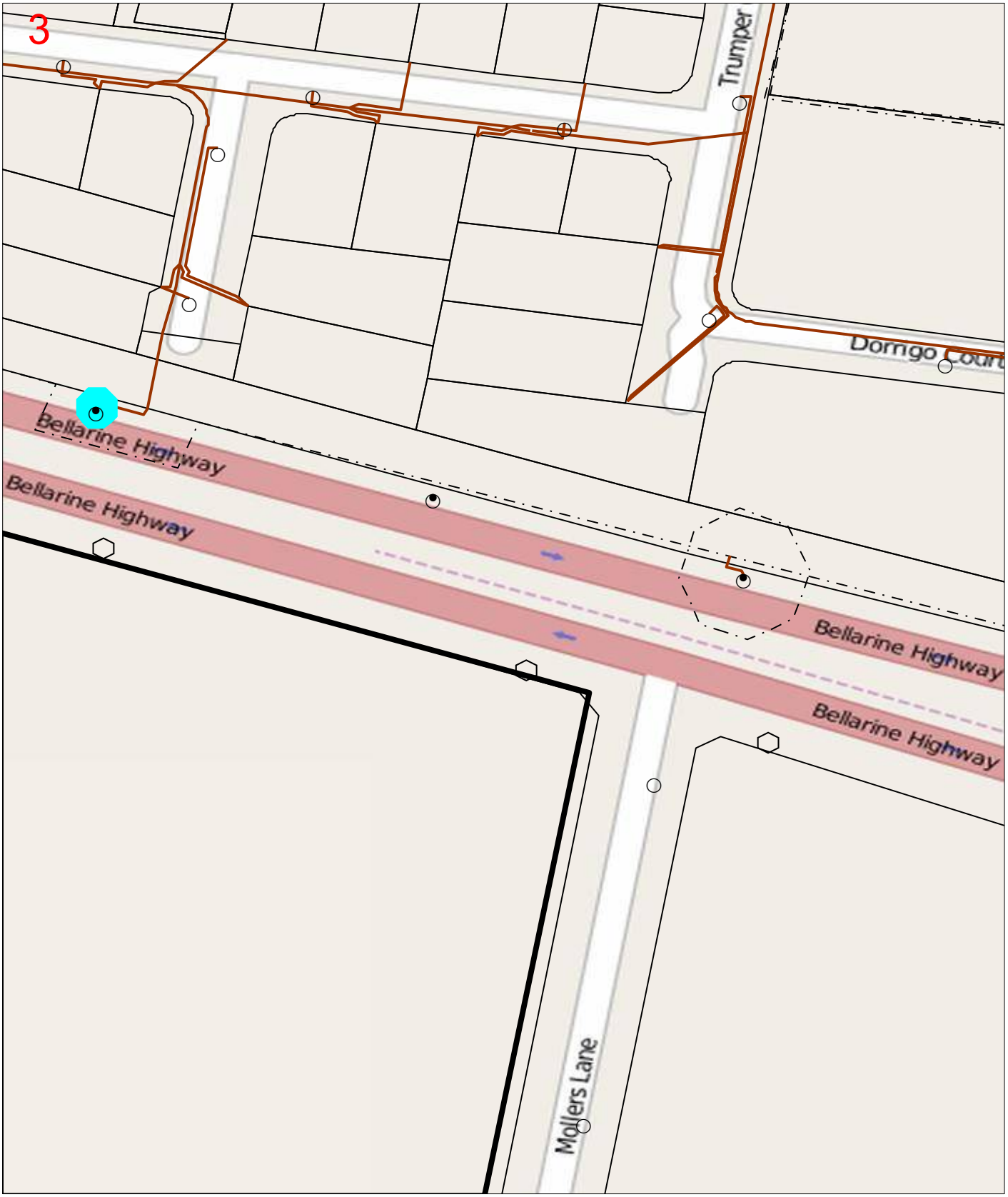
Powered by dbyd

Map 3

Sequence No: 48330357

2 Mollers Lane Leopold

MAP IS A GUIDE ONLY- REFER TO CABLE PLANS FOR ACCURATE ASSET LOCATIONS



LEGEND:

DBYD Work Area | SWER Substation | High Voltage Cable | Communication Cable | Pole (Subtransmission) | Pole (LV)

Zone Substation | Distribution Substation | Low Voltage Cable | Earth Cable | Pole (HV) | Property Boundary

This map represents the location of the submitted DBYD Work Area and all CitiPower/Powercor responses are based on this location. It is the responsibility of the enquirer to ensure the accuracy of the DBYD Work Area.

0 0.01km

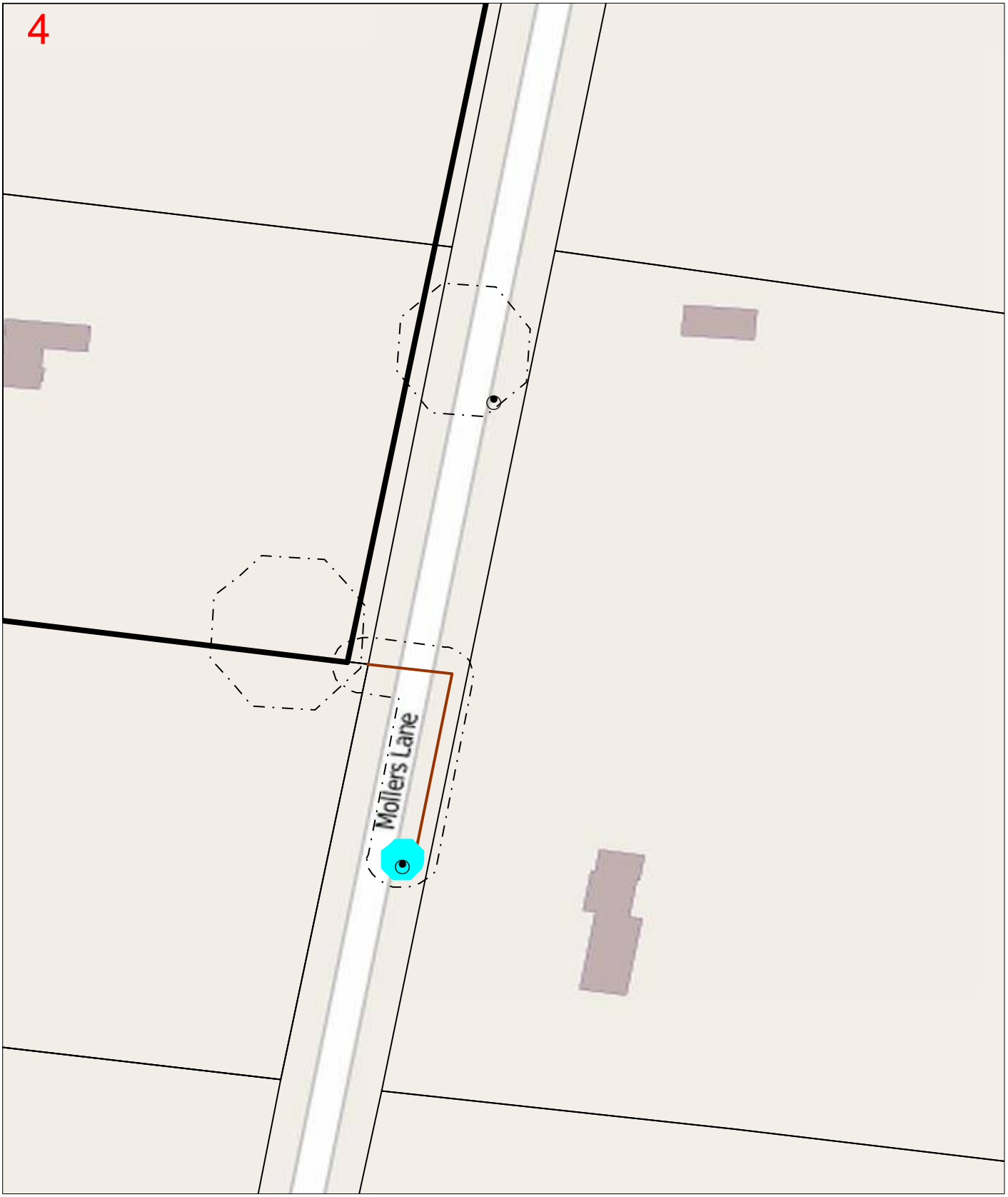
Powered by dbyd

Map 4

Sequence No: 48330357

2 Mollers Lane Leopold

MAP IS A GUIDE ONLY- REFER TO CABLE PLANS FOR ACCURATE ASSET LOCATIONS



LEGEND:

DBYD Work Area
SWER Substation
High Voltage Cable
Communication Cable
Pole (Subtransmission)
Pole (LV)
Zone Substation
Distribution Substation
Low Voltage Cable
Earth Cable
Pole (HV)
Property Boundary

0 0.01km

This map represents the location of the submitted DBYD Work Area and all CitiPower/Powercor responses are based on this location. It is the responsibility of the enquirer to ensure the accuracy of the DBYD Work Area.

Powered by dbyd

Dial Before You Dig (DBYD)
IMPORTANT—Conditions

DUTY OF CARE

All reasonable care has been taken to ensure that information regarding underground cables shown on this plan is accurate. Some variations from records may exist and complete accuracy cannot be guaranteed. Some underground assets of Powercor exist without any records having been established. If you observe obvious electrical cables going underground and they appear to be additional to information supplied, including "All Clear" advice, please call for further assistance.

Where CitiPower/Powercor assets are at the work site or in close proximity to proposed work, the exact position of the cable must first be determined by careful hand excavation. A Permit to Work will be required where excavation work is to be carried out within the "Exclusion Zone".

Cable cover slabs, if present, must not be disturbed.

Validity of information is only for 14 days from date of issue.

"No Go Zone" requirements for works in the vicinity of overhead powerlines must also be met.

It is your obligation to ensure that no damage injury or loss arises out of the performance of your works.

Further assistance may be obtained if necessary by telephoning CitiPower/Powercor Cable Locations on 132206

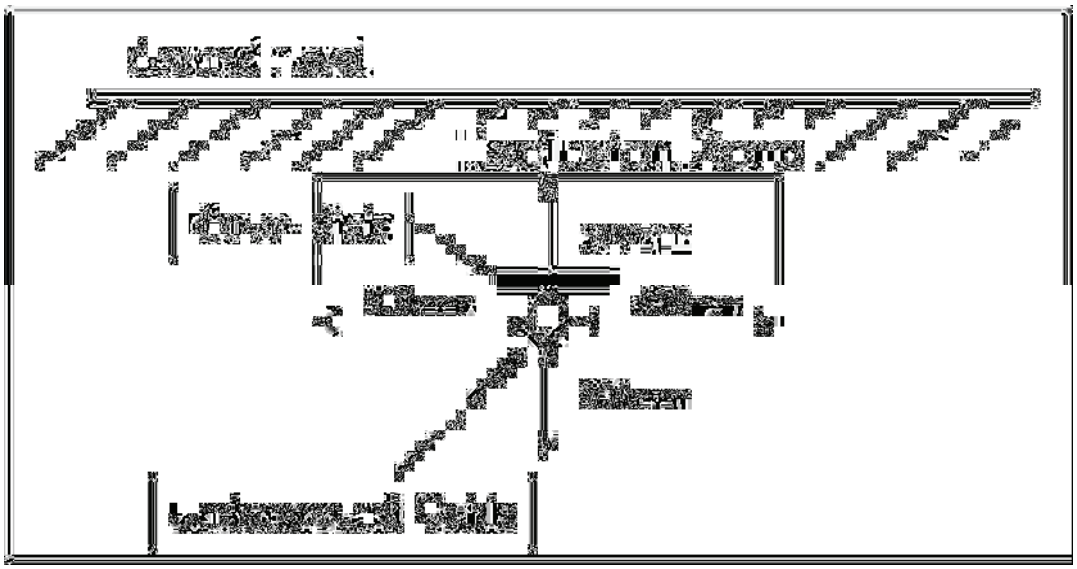
NOTE: CitiPower/Powercor does not have plans of privately owned cables on private property. e.g.-Pit to Meter Board or outside of defined easements.

PLEASE NOTE - Other Electricity Businesses or Authorities may have underground cables in the vicinity of your inquiry that CitiPower/Powercor has no records or knowledge of. e.g. Traffic Signal cables.

Conditions for Working in the Vicinity of CP/PAL Underground Cables

Permit to Work

A Permit to Work (hereinafter referred to as a Permit) is required when any excavation will result in a disturbance of the underground asset, protective cover slab or conduit. A permit is also required for any non-manual excavation work within the exclusion zone as shown below.



If the excavation is carried out very carefully with unpowered hand tools only up to the protective cover slab or conduit, will not disturb the covering, and CitiPower/Powercor has been consulted, a permit may not be required. This process is known as hand probing and is used to accurately locate underground assets adjacent the proposed worksite. A permit is not required for hand tool excavation where hand probing has established the cable location.

No excavation with mechanical excavating plant shall be carried out within the Exclusion Zone.

Dial Before You Dig (DBYD)
IMPORTANT—Conditions

Conditions for Working in the Vicinity of CP/PAL Underground Cables

Type of Protective Covers on CitiPower/Powercor Underground Cables
CitiPower/Powercor cable/s have protective covers of either

1. Concrete or P.V.C. cover slabs
2. P.V.C., A.C. or G.I. pipe conduit
3. Concrete encased P.V.C. pipe
4. Thin plastic marker tape (orange)
5. Wooden troughing

Note: Some cables are known to be buried without protective covers

In no case shall the protective covering be removed without obtaining approval from a CitiPower/Powercor Responsible Officer.

Location of Cable/s
CitiPower/Powercor takes all reasonable care to ensure that the location and level of cable/s shown on the CABLE PLANS is correct at the time of installation, however, reference points may change. Locating of the cable/s and or conduit/s by hand probing is essential when working in close proximity to them.

NOTE: CitiPower/Powercor does not accept responsibility for any inaccuracies in the maps & plans of its assets. The party carrying out any excavation irrespective if such is with or without a permit, is liable for all injury, damage and loss caused by these works. Further, the party is liable for all damage to CitiPower/Powercor underground assets.

Pole Footings and Stay Anchorages
There are specific regulations concerning excavation in the vicinity of poles or stays that must be assessed to ensure that the stability of the assets is not compromised. These regulations are applied on a site by site basis and may require permits.

Excavation using Unpowered Hand Tools
Excavation with hand tools shall be carried out with care up to but not closer than the minimum distances specified as follows:

Above Underground Asset
Where CitiPower/Powercor underground assets are protected, such as by concrete/polymeric cover slabs or excavation, careful excavation using un-powered hand tools can be done with the asset energised. This type of excavation may be allowed up to the protective cover or to the asset if no cover in place. It's important to ensure that no disturbance of the CitiPower/Powercor asset including the protective cover shall occur. Any disturbance must be reported immediately to CitiPower/Powercor on 132412

Below Underground Asset
Excavation must not be carried out below the CitiPower/Powercor underground asset unless steps are taken to ensure that no disturbance of the asset will occur. Under-crossings shall be at right angles wherever possible. Such excavation below the CitiPower/Powercor asset should not come within a distance of 300mm below the asset located at the lowest point.

During excavation any requirements on clearance to any other authorities underground assets shall be maintained.

Beside Underground Asset
Any excavation that falls within 500mm of the edge of CitiPower/Powercor underground asset shall only be undertaken under Permit conditions.

EMERGENCY CITIPOWER/POWERCOR NUMBERS

POWER FAILURE/STREET LIGHT FAILURE: **132 412** CUSTOMER ENQUIRIES: **132 206**

Note: CitiPower/Powercor also has some Transmission and Communication cable/s in Council Electricity Supply Areas.

Dial Before You Dig (DBYD)
IMPORTANT—Conditions

Conditions for Working in the Vicinity of CP/PAL Underground Cables

Mechanical Excavation Plant

Mechanical excavating plant may be used with care up to but no closer than the minimum distances specified as follows. Any work required within these distances shall be undertaken under Permit conditions. The location of the asset shall be first be proved by careful hand probing before proceeding with any work involving mechanical excavation plant. Requirements of the ESV Overhead "No Go Zone" must also be met. A suitable retaining wall barrier may be required between the work and the CP/PAL underground asset so as to prevent disturbance of the CP/PAL underground asset during the work, to the satisfaction of a CP/PAL responsible Officer.

Pole Hole Boring Machine (Vertical Boring) — Permit required within 500mm

A minimum clearance of 300mm from the edge of the CitiPower/Powercor asset shall be maintained for pole hole boring under Permit conditions.

Directional Boring Machine — Permit required within 500mm

A trench shall be dug one metre from the edge of the CitiPower/Powercor underground asset on the side from which the auger will approach, ensure a clearance of 300mm from the asset can be maintained under Permit conditions.

For directional boring parallel to CitiPower/Powercor underground asset and at the level of the asset a clearance of 500mm shall be maintained from the edge of the nearest underground asset. If boring is above or below CitiPower/Powercor underground asset a minimum clearance of 300mm shall be maintained from the edge of the nearest underground asset.

Excavating Parallel to CP/PAL Underground Asset — Permit required within 500mm

Where the excavation is being carried out parallel to the CP/PAL underground asset the following shall be ensured under Permit conditions:

1. Hand Probing shall be carried out at regular intervals of no more than 10m to prove the actual location of the CP/PAL asset.
2. The side of the excavation shall not be closer than 300mm to the nearest edge of the asset.
3. If an excavation will exceed the depth of the CP/PAL asset and/or will disturb protective covering, slab or the bedding material around the asset, CP/PAL responsible Officer is to determine if cables are to be relocated.

Excavating Across CP/PAL Underground Asset — Permit required within 500mm

Where the excavation is being carried out across the CP/PAL underground asset the following shall be ensured under Permit conditions:

1. Prior to mechanical excavation, location of CP/PAL underground asset must be proven by careful hand probing.
2. A minimum clearance of 300mm from nearest CP/PAL asset shall be maintained for all non electrical installation works.
3. In no case shall any protective covering be removed without obtaining approval from CP/PAL Responsible Officer.
4. If width and depth of excavation will expose CP/PAL asset, contact CP/PAL Responsible Officer to determine if cables are to be relocated.

Heavy (Crawler Type) Machinery — Permit required within 500mm (above the asset)

Where heavy "Crawler Type" machinery is required to carry out road works over the top of CP/PAL underground assets or ducts such as major road reconstruction, a minimum sound cover of 450mm to the top of the CP/PAL underground asset must be maintained whilst the heavy machinery is in operation.

Explosives — Permit required under all circumstances

Use of explosives within 1500mm of CP/PAL assets shall not be approved. Nevertheless, if explosives used beyond 1500mm damage CP/PAL assets the contractor responsible for blasting will be held liable for the cost of restoration.

Pile Driving — Permit required under all circumstances

Pile driving within 1500mm of CP/PAL assets shall not be approved. The exact location and depth of all adjacent CP/PAL underground assets shall be physically proven by hand probing prior to commencement of work.

FURTHER INFORMATION

To obtain CitiPower/Powercor underground cable plan information, please contact “Dial Before you Dig” on telephone 1100. Any queries regarding precautions required for working in the vicinity of Underground Cables and to make application for a permit to work please do not hesitate to call CITIPOWER/POWERCOR GENERAL ENQUIRIES on telephone **132 206**

DUTY OF CARE

TELSTRA CORPORATON ACN 051 775 556

IMPORTANT:

Please read and understand all the information and disclaimers provided below.

Telstra plan and location information conforms to **Quality Level 'D'** of the **Australian Standard AS 5488 – Classification of Subsurface Utility Information**. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. **FURTHER ON-SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK**. A plant location service is an essential part of the process to validate the exact location of the Telstra assets and to ensure that the asset is protected during construction work. The plant location service must be Telstra accredited to be able to access Telstra network. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Telstra DBYD plans are not for locating Telstra network within a Telstra exchange building site.
If locating Telstra network within a Telstra exchange site contact Telstra Plan Services.

"DUTY OF CARE"

When working in the vicinity of telecommunications plant you have a "Duty of Care" that must be observed.

Works or proposed works should be planned to allow for minimal impact and appropriate protection of Telstra plant. Telstra can provide plans and sketches showing the presence of its network to assist at the design stage. Telstra will also work with you to avoid damage to Telstra's plant during construction works.

It is your responsibility to:

1. Request plans of Telstra plant for a particular location at a reasonable time before construction begins. ***http://www.1100.com.au***
2. Engage an Accredited Plant Locator who must have a current Telstra issued accreditation card. A list of accredited locators is attached to this email. (Allow enough time to arrange for one).
3. After engaging a Telstra Accredited Plant Locator, visually locate Telstra plant by hand digging or using non destructive water jet method (pot holing) where construction activities may be next to, damage or interfere with Telstra plant (see "Essential Precautions and Approach Distances" section for more information); and
4. Contact Telstra's Plan Services (see below for details) if Telstra plant is near to, wholly, or partly located near planned construction activities and you require further advice about how to protect the plant or you need to relocate the plant to complete your construction activities. ***(Telstra.Plans@team.telstra.com)***

Important note: *The construction of Telstra's network dates back over many years. Some of Telstra's pits and ducts were manufactured from asbestos-containing cement. You must take care in conducting any works in the vicinity of Telstra's pits and ducts. You must refrain from in any way disturbing or damaging Telstra's network infrastructure when conducting your works. We recommend that before you conduct any works in the vicinity of Telstra infrastructure that you ensure your processes and procedures eliminate any possibility of disturbing, damaging or interfering in any way with Telstra's infrastructure. Your processes and procedures should incorporate appropriate measures having regard to the nature of this risk.*

ASSET RELOCATIONS

You are not permitted to access, relocate or alter or repair any Telstra assets or network under any circumstances.

For all enquiries relating to the relocation or protection of Telstra assets please phone **1800 810 443** or email **F1102490@team.telstra.com**

Only Telstra and its contractors may access and conduct works on Telstra's network (including its plant and assets). This includes performing modification or relocation works. This requirement is to ensure that Telstra can protect the integrity of its network, avoid disruption to services and ensure that the relocation meets Telstra's requirements.

DAMAGE TO TELSTRA'S NETWORK MUST BE REPORTED TO 132203 IMMEDIATELY.

You will be held responsible for all plant damage that occurs or any impacts to Telstra's network as a result of your construction activities. This includes interfering with plant, conducting unauthorised modification works and interfering with Telstra's assets in a way that prevents Telstra from accessing or using its assets in the future.

Telstra reserves all rights to recover compensation for loss or damage to its cable network or other property including consequential losses.

EMERGENCY SITUATIONS - RECEIVING TELSTRA PLANS

Telstra's automated mapping system will provide a fast response for emergency situations. (Faster than an operator can provide manually). Automated responses are normally available 24/7.

To receive a fast automated response from Telstra your request must **-**

- Be a web request lodged at DBYD (**www.1100.com.au**). The request will be then forwarded directly to Telstra.
- contain your email address so you can receive the automated email response.
- be for the purposes of 'mechanical excavation' or other ground breaking DBYD activity. (requests with activity types conveyancing, planning & design or other non digging activities may not be responded to until the next business day).
- be for an area less than 350 metres in size to obtain a PDF map (over 350 metres will default to DWF due to size)
- be for an area less than 2500 metres in size to obtain a DWF map

NATURAL DISASTERS

Natural Disasters include (amongst other things) earthquakes, cyclones, floods and tsunamis.

In the case of such events, urgent requests for plans or information relating to the location of Telstra network can be made directly to Telstra Network Integrity Team Managers as follows:

NSW – John McInerney 0419 485 795

QLD – Glenn Swift 0419 660 147

VIC/TAS - David Povazan 0417 300 947

SA/NT - Mick Weaver 0419 828 703

WA - Angus Beresford-Peirse 0419 123 589

TELSTRA PLAN SERVICES **-** for all Telstra Dial Before You Dig related enquiries

email - **Telstra.Plans@team.telstra.com**

phone - **1800 653 935** (general enquiries, business hours only)

for Telstra DBYD plan information - Shalin 07 3455 2997
Glen 07 3455 1011

for advice on preventing damage - Adam 07 3455 2037
Lachlan 07 3455 3132
Shalin 07 3455 2997

Accredited plant locator enquiries - Mike 0477 377 036
Taylor 0477 365 666
(Including how to become an Accredited Plant Locator to locate Telstra network)

Road closures and easements - Megan 07 3455 0834
Glen 07 3455 1011

Please note - to make an enquiry the plans must be current (within 60 days of issue). If your plans have expired you will need to submit a new request via DBYD.

CONCERNING TELSTRA PLANS:

Please note the following:

- For Telstra plans contact **Dial Before You Dig** (**www.1100.com.au**) at least 2 business days prior to digging. (Note - further lead time may be required for you to arrange for an Accredited Plant Locator from the provided list)
- Fast response can be provided by Telstra if an email address is supplied. (if posted, this may take up to one week or longer to receive plans)
- Telstra plans and information provided are **valid for 60 days** from the date of issue.
- Telstra owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose.
- Telstra plans or other details are provided only for the use of the applicant, its servants, agents or Telstra-accredited plant locators. **The applicant may not give the plans or details to any parties other than these, and may not generate profit from commercialising the plans or details.**
- Please contact **Telstra Plan Services** (see above for details) immediately should you locate Telstra assets not indicated on these plans.
- Telstra, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and/or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Telstra against any claim or demand for any such loss or damage.
- Please ensure Telstra plans and information provided remains on-site at all times throughout the inspection, location and construction phase of any works.
- Telstra plans conform to Quality Level ‘D’ of the Australian Standard (AS 5488) – Classification of Subsurface Utility Information (SUI). For further information refer to AS 5488.

ESSENTIAL PRECAUTIONS AND APPROACH DISTANCES:

NOTE: If the following clearances cannot be maintained, please contact Telstra Plan Services for advice on how best to resolve this situation. (see above for contact details)

1. On receipt of plans and sketches and before commencing any excavation work or similar activities near Telstra's plant, you must validate the location of Telstra plant. It is your responsibility as part of your "Duty of Care". A plant location service is an essential part of the process to validate the exact location of Telstra assets. Only Telstra accredited locators may access Telstra network. All accredited locators must have a current Telstra-issued accreditation card. After engaging a Telstra Accredited Plant Locator, undertake manual exposure such as potholing to validate the actual location of Telstra plant. (Note - The exact position of Telstra assets can only be validated by physically exposing it).

Where Telstra's plant is in an area where road and footpaths are well defined by kerbs or other features a minimum clear distance of 600mm must be maintained from where it is determined plant is located.

In non established or unformed reserves and terrain, this approach distance must be at least 1.5 metres.

In country/rural areas which may have wider variations in reasonably presumed plant presence, the following minimum approach distances apply:

a) Parallel to major plant: 10 metres (for optic fibre and/or copper cable over 300 pairs)
b) Parallel to other plant: 5 metres

NOTE: Even manual pot-holing needs to be undertaken with extreme care, commonsense and employing techniques least likely to damage cables. For example, orientate shovel blades and trowels parallel to the cable rather than digging across the cable.

If construction work is parallel to Telstra plant, then careful hand digging or using non destructive water jet method (pot-holing) at least every 5m is required to establish the location of all plant before work commences.

2. Maintain the following minimum clearance between construction activity and **actual validated location** of Telstra Plant.

Jackhammers/Pneumatic Breakers	*Not within 1.0m of **actual validated location.***
Vibrating Plate or Wacker Packer Compactor	*Not within 0.5m of actual location of Telstra ducts.* *300mm compact clearance cover before compactor can be used across Telstra ducts.*
Boring Equipment (in-line, horizontal and vertical)	*Not within 2.0m of **actual validated location**.* *Constructor to hand dig or use non-destructive water jet method (pot-hole) and expose plant.*
Heavy Vehicle Traffic (over 3 tonnes)	*Not to be driven across Telstra ducts (or plant) with less than 600mm cover.* *Constructor to check actual depth via hand digging.*
Mechanical Excavators, Farm ploughing and Tree Removal	*Not within 1.0m of **actual validated location.*** *Constructor to hand dig or use non-destructive water jet method (pot-hole) and expose plant.*

All Telstra pits and manholes should be a minimum of 1.2m in from the back of kerb after the completion of your work.

All Telstra conduit should have the following minimum depth of cover after the completion of your work:-

Footway 450mm

Roadway 450mm at drain invert and 600mm at road centre crown

For clearance distances relating to Telstra pillars, cabinets and RIMs/RCMs please contact Telstra Plan Services (see above for details).

FURTHER ASSISTANCE:

Assistance can be obtained by contacting Telstra Plan Services (see contact details above)

Where on-site location is provided, you are responsible for all hand digging or use non-destructive water jet method (pot-holing) to visually locate and expose Telstra plant. (For advice on damage prevention please contact Telstra Plan Services)

If plant location plans or visual location of Telstra plant by digging reveals that the location of Telstra plant is situated wholly or partly where you plan to work, then Telstra's Network Integrity Group must be contacted to discuss possible engineering solutions.
Please phone **1800 810 443** or email **F1102490@team.telstra.com**

NOTE:

If Telstra relocation or protection works are part of the agreed solution, then payment to Telstra for the cost of this work shall be the responsibility of the principal developer, constructor or person for whom the work is performed. The principal developer or constructor will be required to provide Telstra with the details of their proposed work showing how Telstra's plant is to be accommodated and these details must be approved by the Regional Network Integrity Manager prior to the commencement of site works.
Please phone **1800 810 443** or email **F1102490@team.telstra.com**

RURAL LANDOWNERS

Where Telstra owned cable crosses agricultural land, Telstra may provide on-site assistance with cable location. The Telstra Plan Services operator will provide assistance in determining eligibility.

Please note:

- The exact location, including depth of cables**,** must be validated by pot holing, which is not covered by this service.
- This service is only available to assist private rural land owners.
- This service normally covers one hour on-site only. Any time required in addition to Telstra funded time can be purchased directly from the Accredited Plant Locator.

For further information including terms and conditions, please contact Telstra Plan Services.

PRIVACY NOTE

Your information has been provided to Telstra by DBYD to enable Telstra to respond to your DBYD request. Telstra keeps your information in accordance with its privacy statement entitled "Protecting Your Privacy" which can be obtained from Telstra either by calling 1800 039 059 or visiting our website at www.telstra.com.au/privacy

DATA EXTRACTION FEES

In some instances a data extraction fee may be applicable for the supply of Telstra information. Typically a data extraction fee may apply to large projects or requests to be supplied in non standard formats. For further details contact Telstra Plan Services.

ELECTRONIC PLANS - PDF AND DWF MAPS

If you have received Telstra maps via email you will have received the maps as either a PDF file (for smaller areas) or DWF file (for larger area requests). If you are unable to launch any one of the softcopy files for viewing and printing, you may need to download and install one or more of the free viewing and printing products such as Adobe Acrobat Reader (for PDF files) or Autodesk Design Review (for DWF files) available from the internet.

PDF files

PDF is the default softcopy format for all requests for areas up to approx *350m in length. (*depends on geographic location of request). The PDF file is formatted to A3 portrait sheet however it can be printed on any size sheet including from A4 to AO, either as the full sheet or selected areas to suit needs and legibility. (to print a selected area zoom up and print 'current view') If there are multiple layers of Telstra network you may receive up to 2 sheets in the single PDF file attachment supplied. There are three types or layers of network normally recorded - local network, mains cables or a combined layer of local and mains (usually displayed in rural or semi rural areas). If mains cable network is present in addition to local cables (i.e. as separate layer in a particular area), the mains will be shown on a separate sheet. The mains cable information should be read in conjunction with the local cable information.

DWF files

This is the default softcopy format for all requests for areas that are over 350m in length. Maximum length for a DWF automated response is approx 2500m - depending on geographic location of request (manually-processed plans may provide larger coverage). The DWF files differ from PDF in that DWF are vector files made up of layers that can be turned on or off and are not formatted to a specific sheet size. This makes them ideal for larger areas and for transmitting over email etc.

How to view Telstra DWF files -

Telstra DWF files come with all layers turned on. You may need to turn individual layers on or off for viewing and printing clarity. Individual layer names are CC (main cable/conduit), DA (distribution or local area network) and sometimes a combined layer - CAC. Layer details can be viewed by either picking off the side menu or by selecting 'window' then 'layers' off the top menu bar. Use 'layers' to turn individual layers off or on. (double click or right click on layer icon.)

How to print Telstra DWF files -

DWF files can be printed on any size sheet. They can be printed in their entirety or by selected areas of interest. Some DWF coverage areas are large and are not suited to printing legibly on a single A4 sheet - you may need several prints if you only have an A4 printer. Alternatively, an A3, A1 or larger printer could be used. To print, zoom in or out and then, by changing the 'print range' settings, you can print what is displayed on your screen to suit your paper size. If you only have a small printer, e.g. A4, you may need to zoom until the text is legible on your screen for it to be legible on the print. (which is why you may need several prints). To print what is displayed on your screen the 'view' setting should be changed from 'full page' to 'current view'. The 'current sheet' setting should also be selected. You may need to print layers separately for clarity and legibility. (Details above on how to turn layers on or off)

How to change the background colour from white to black (when viewing) Telstra DWF files -

If using Autodesk Design Review the background colour can be changed by selecting 'Tools' then 'options' then 'sheet'. Tick the box 'override published paper colours' and select the colour required using the tab provided.

Telstra Automated Mapping System (TAMS)

Telstra provides an automated plan response for the majority of DBYD requests received.

Requestors must supply a current email address on their request to DBYD and must also be able to accept a standard format of PDF or DWF. An automated response can be provided much faster than the alternative of a mailed hardcopy, and can avoid unnecessary delays in waiting for plans to arrive. Being softcopy, it can easily be sent directly to a worksite and can be available 7 days a week. The automated system can be configured for individual requestors to receive either PDF/DWF (where small requests are PDF and larger requests are DWF) or, alternatively, all in DWF (both small and large requests). Please contact Plan Services for further details or to have your preferences updated. **Please note that all requests over *350m (approx.) in size can only be supplied in DWF format** and there are size limits on what can be provided. (* actual size depends on geographic location of requested area)

ACCREDITED PLANT LOCATORS (For your area)

All Accredited Plant Locators locating Telstra network must have a current identification card issued by Telstra. A list of Telstra Accredited Locators is provided with the Telstra Dial Before You Dig plans.

Telstra does not permit external parties (non-Telstra) to access or conduct work on our network. Only Telstra staff, Telstra contractors or locators who are correctly accredited are allowed to work on or enter our manholes, pits, ducts, cables etc. This is for safety as well as for legal reasons.

Please note it is a criminal offence under the *Criminal Code Act 1995* (Cth) to tamper or interfere with communication facilities owned by a carrier. Heavy penalties may apply for breach of this prohibition, and any damages suffered, or costs incurred by Telstra as a result of any such unauthorised works may be claimed against you.

For the assistance of customers an accredited Plant Locator can perform any of the following activities if requested to do so by the owner:

- review Telstra's plans to assess the approximate location of Telstra plant;
- advise owners of the approximate location of Telstra plant according to the plans;
- advise owners of the best method for locating Telstra plant;
- advise owners of the hazards of unqualified persons attempting to find the exact location of Telstra plant and working in the vicinity of Telstra plant without first locating its exact position; and
- perform trial hole explorations by hand digging (pot-holing) to expose Telstra plant with a high degree of skill, competence and efficiency and utilising all necessary safety equipment.

The attached list provides the names and contact details for Accredited Plant Locators who service your area and can provide you with assistance in locating Telstra plant on site. These organisations have been able to satisfy Telstra that they have a sound knowledge of telecommunications plant and its sensitivity to disturbance; appropriate equipment for locating telecommunications plant and competent personnel who are able to interpret telecommunications plans and sketches and understand safety issues relevant to working around telecommunications plant.

Please Note:

- Optic fibre cable locations must be performed by a locator with Telstra optic fibre cable location accreditation. (Not all copper accredited locators have optic fibre accreditation). The locators with additional optic fibre cable location accreditation are indicated by a 'yes' in the column headed 'Fibre' in the lists of locators that are published with the DBYD plans.
- An Accredited Plant Locator is NOT permitted to provide depth of communications plant unless it is physically exposed by hand digging.
- The details of any contract, agreement or retainer for site assistance to locate telecommunications plant shall be for you to decide and agree with the organisation engaged. Telstra is not a party to any contract entered into between you and an Accredited Plant Locator. The Accredited Plant Locators are able to provide guidance concerning the extent of site investigations required.
- Payment for the site assistance will be your responsibility and payment details should be agreed before the engagement is confirmed.
- Telstra does not accept any liability or responsibility for the performance of or advice given by an Accredited Plant Locator. Accreditation is an initiative taken by Telstra towards the establishment and maintenance of competency standards. However, performance and the advice given will always depend on the nature of the individual engagement.
- You have the right to request the organisation you engage to show their Telstra issued ID card.
- Neither the Accredited Plant Locator nor any of its employees are an employee or agent for Telstra. Telstra is not liable for any damage or loss caused by the Accredited Plant Locator or its employees.

Telstra offers free Cable Awareness Presentations & Advanced Cable Reading Presentations, if you believe you or your company would benefit from this offer please contact Network Integrity on 1800 810 443 or **F1102490@team.telstra.com**

*For details on how to become an Accredited Plant Locator to be able to locate Telstra network please contact Telstra Plan Services – Mike (0477 377 036) ***mugl@dominoapp.in.telstra.com.au***

LEGEND

IT'S HOW WE CONNECT

For more info contact a Telstra Accredited Locater or Telstra Plan Services 1800 653 935

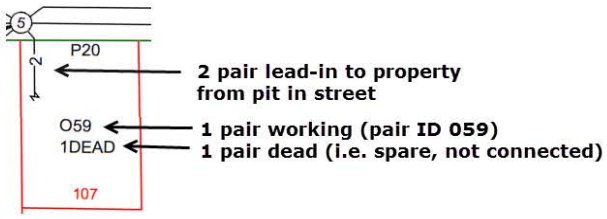
Exchange
(major cable present)

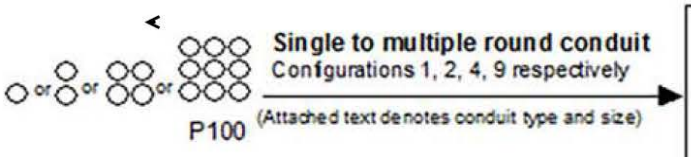
Footway access chamber
(can vary from 1-lid to 12-lid)

or **Pillar/cabinet**
(above the ground / free standing)

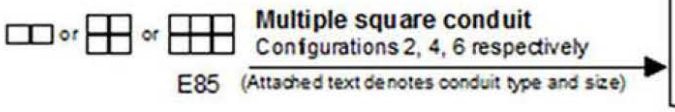
Above ground complex equipment housing (eg RIM)
Please Note: This equipment is powered by 240V electricity.

OC **other carrier**





Single to multiple round conduit
Configurations 1, 2, 4, 9 respectively
(Attached text denotes conduit type and size)



Multiple square conduit
Configurations 2, 4, 6 respectively
(Attached text denotes conduit type and size)

Some examples of conduit type and size:
A - Asbestos cement, P - PVC / plastic, C - Concrete, GI - Galvanised iron, E - Earthenware.
Conduit sizes *nominally* range from 20mm to 100mm.

P50	50mm PVC conduit
P100	100mm PVC conduit
A100	100mm asbestos cement conduit
E 85	85mm square earthenware conduit

Cable jointing pit
(number indicating pit type)

Elevated cable joint
(above ground joint on buried cable)

Telstra Plant in shared utility trench

Aerial Cable
(above ground)

Aerial Cable
(attached to joint use pole e.g. power)

Direct buried cable

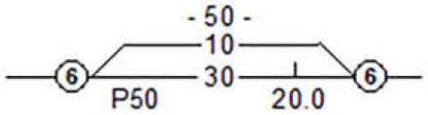
M **Marker post installed**

TR **Buried transponder**

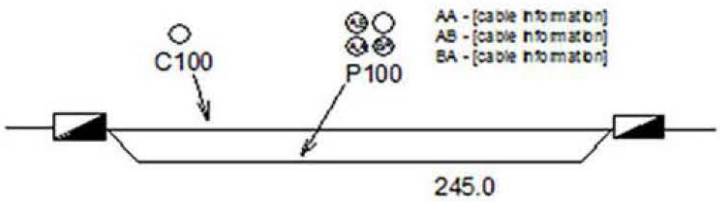
MT **Marker, transponder**

SMOF **Optical fibre cable direct buried**

Some examples of how to read Telstra plans:



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits, 20.0m apart, with a direct buried 30-pair cable along the same route.



Two separate conduit runs between two footway access chambers (manholes) 245m apart. A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along the same route.

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Telstra Accredited Plant Locators - Victoria / Tasmania

Telstra plans are intended to be indicative only. A plant location service (Telstra accredited) is required to identify the exact location of the plant and ensure that the asset is protected during construction work. It is your responsibility as part of your "Duty of Care" to engage an Accredited Plant Locator.

Please contact a Telstra accredited locator from the list below (fees apply).

***Optic fibre cable locations** must be performed by a locator with Telstra optic fibre location accreditation. Locators with Telstra optic fibre cable location accreditation are indicated by a 'yes' in the 'Fibre' column.

Tasmania

Name & areas covered	*Fibre	Contact details
AJ Water & Leak Detection - *Launceston* *Tas - North, North East & North West*	Yes	0457 710 684 W: www.ajwater.com.au
Archer's Underground Services Locations – *Hobart, Devonport & Burnie depots.* *Servicing all areas of Tasmania*	Yes	(Matt) 0418 737 299 – southern tas. (Bob) 0459 807 299 – north & n.w. tas. F: (03) 6245 1299 E: auslocations@bigpond.com
Astrotec – *Margate* *Covering all Southern Tasmania*	Yes	0408 479 601 E: simon@astrotec.net.au
Bill's Locating Service - *Cremorne* *All of Tasmania*	Yes	0417 581 775 F: (03) 6248 9736
Cable Locators Northern Tasmania - *Rosevears* *0363 Area Code*	Yes	0418 321 311 (03) 6394 3994
Corrosion Mitigation Pty Ltd - *Kensington* *All areas*	No	(03) 9376 4216 0418 367 295
Danny Shields Paving - *Launceston* *Northern Tasmania*	No	0438 392 465 F: (03) 6339 2465
Desmar Civil Contracting Pty Ltd – *St Leonards* *Launceston, Northern Tasmania & Hobart, Southern Tasmania.*	No	0437 113 087 E: Admin.desmar@bigpond.com
Environmental Locations Systems - *Hallam* *Metropolitan Melbourne and all of Victoria*	Yes	(03) 9314 5335 0414 352 472
Hunter Geophysics – *Chadstone area* Melbourne, Geelong, Ballarat, the Mornington Peninsula and surrounding areas. Tasmanian appointments available on minimum 2 days call-out.	Yes	0488 501 261 (03) 9913 2259 david.hunter@huntergeophysics.com W: www.huntergeophysics.com
Juls Projects Pty Ltd - *Pakenham*	Yes	0417 511 114 E: craigj@julsprojects.com.au
LOC84U (MD Smith) - *St Marys* *North East Coast, Swansea North, Fingel Valley to Avoca*	No	0408 059 521
Nigel Mawby Enterprises - *Devonport* *All of Tasmania*	Yes	0408 635 357 E: nigelamawby@bigpond.com
Radiotech Geo-Structural Surveys - *Greensborough*	No	(03) 9444 9183 F: (03) 9434 4694
Riverina Horizontal Boring Pty Ltd - *Wodonga*	No	(02) 6059 1788 0419 149 153 F: (02) 6059 5090

Victoria

Name & areas covered	Fibre	Contact details
Able Pipe Cable & Leak Location Services- *Cheltenham* *Melbourne Metro & Mornington Peninsula*	No	0418 318 186 F: (03) 9584 0137
Accredited Pipe & Cable Locators - *Pakenham* *Pakenham, SE Melbourne and Gippsland*	Yes	(03) 5941 4299 0418 368 591 F: (03) 5941 4291
Accurate Locating Pipes & Cables - *Barossa Valley* *Adelaide, Adelaide Hills, Barossa Valley and all regions of SA. Areas of NSW, VIC & NT also.*	Yes	0407 464 882
Advanced Pty Limited - *Lancefield* *Melbourne Metro, Geelong, Bendigo, Lancefield*	No	(03) 5429 1739 0402 883 536
All Areas Asset Locating (Scantek Group Pty Ltd) – *Macleod* *Melbourne Metro, Greater Melbourne and Regional Areas*	No	0409 234 121 E: scantek1100@bigpond.com
All Melbourne Cable & Pipe Locating – *Ringwood North* *Eastern Suburbs, Yarra Valley, Melbourne and Greater Metropolitan Area.*	No	0417 202 000 F: (03) 9876 5716
All States Contracting Pty Ltd - *Shepparton* *Central, North Central, Goulburn Valley, Shepparton, Seymour, Cobram, Euroa*	Yes	0408 216 653 (03) 5821 6653
All States Recoveries – *Bendigo* (Victoria, Bendigo, Mildura, Murray River, Southern NSW)	No	0428 003 333 E: ian@allstatesrecoveries.com.au
Asset Detection Services Pty Ltd - *Newport* *All of VIC*	Yes	0413 949 400 F: (03) 9391 6204 E: info@assetdetection.com.au
Asset Exposure – *Lysterfield* *Melbourne Metro, Greater Melbourne and all Regional Areas*	Yes	0419 222 999 E: info@assetexposure.com.au
Australian Underground Survey Solutions Pty Ltd - *Narre Warren*	No	(03) 9700 2311 0419 488 883 F: (03) 9314 1568
Barry Bros Specialised Services - *Mulgrave* *Yarra*	Yes	(03) 9574 9888 0407 319 930
Barry Johnstone Locations and Communications - *Mt Gambier.* *S.E. South Australia (Limestone Coast), SW Vic.*	No	0418 834 804
Bendigo District Cable and Pipe Locations - *Bendigo*	Yes	(03) 5447 1148 or 0413 035 386 (03) 5447 1804
Billy Charnock Electrical - *Swan Hill* *Swan Hill and Surrounding Districts*	Yes	(03) 5032 1866 F: (03) 5033 1866
Bishops Underground Services Locations – *Ballarat* *Ballarat and surrounding areas*	Yes	0408 508 453 E: bishops@bigpond.com
C & L Cable Locators - *Bendigo*	Yes	0407 393 405 or 0459 111 191 E: info@cablelocators.com.au

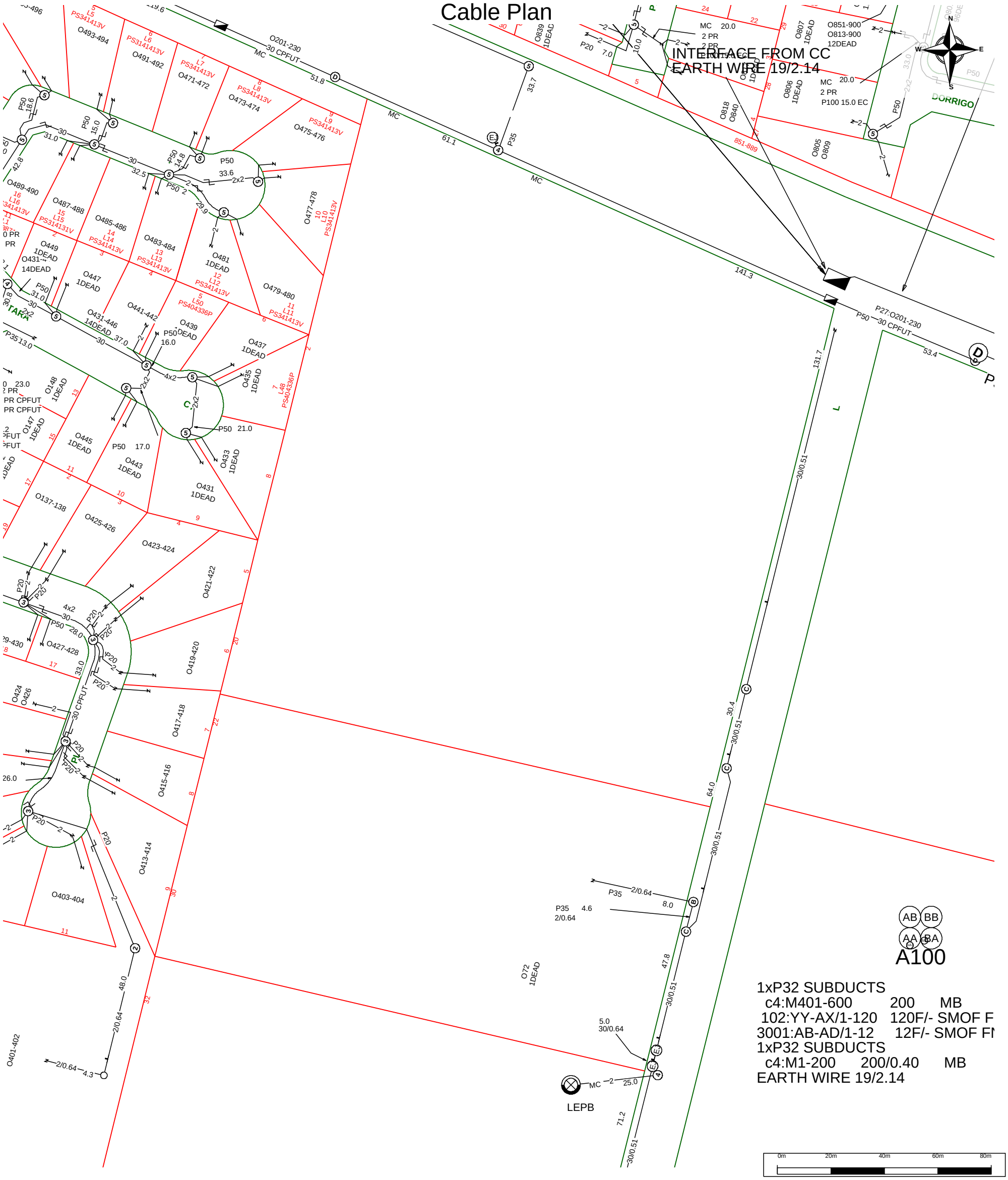
Name & areas covered	Fibre	Contact details
Cablenet Industries Pty Ltd - *Sunshine*	No	(03) 9311 6605 F: (03) 9311 6610
Capogreco Excavations Pty Ltd - *Mildura South* *Mildura, Wentworth, Gol Gol, Dareton, Ouyen, Robinvale, Merbein*	Yes	(03) 5022 2070 or 0428 356 269 F: (03) 5022 7003 info@capoex.com.au and admin@sunraysiacablelocations.com
Cardno Australian Underground Services Pty Ltd - *Highett* *All Areas*	Yes	1300 224 664 (03) 9553 7236 cardnoaus@cardno.com.au
Carey Civil Contractors - *Gordon* *Melbourne and surrounding areas*	No	0408 579 915 (03) 5368 0000 matthew@careycivil.com.au
CHS Group Australia - *Horsham* *Melbourne East and Surrounds*	No	(03) 53816400 0438 824 557 F: (03) 5381 1985
Clean It Industrial Services - *Sale*	Yes	0417 517 391
Cobram Electrical and Data Pty Ltd - *Cobram* *North East Victoria and NSW*	Yes	(03) 5871 2807 0438 503 973 F: (03) 5871 2907 E: info@cobramelectricalanddata.com
Corrosion Mitigation Pty Ltd - *Kensington* *All areas*	No	(03) 9376 4216 0418 367 295
CSA Specialised Services - *Seaford* *All of Victoria*	Yes	1300 859 829 E: courtney@csaspecialised.com.au
D-TECH Ground and Overhead Services Ptd Ltd - *Notting Hill* *All of Vic*	No	0421 697 090 E: tina@d-tech.net.au
Daylesford Underground Cable Location – *Daylesford* *Daylesford & surrounding areas*	No	0427 485 520 (03) 5348 5520
deCastella Walsh Consulting Pty Ltd t/as Utility Locating Victoria - *Yarra Glen & Doncaster East areas*	Yes	0417 327 570 E: damien.decastella@gmail.com
Down Under Pipeline Surveys Pty Ltd - *Orangeville*	No	(02) 4653 1286 or 0418 675 374 F: (02) 4653 1747
Drain Solutions Pty Ltd - *Thomastown* *Melbourne, Melbourne Metro, Greater Melbourne Metropolitan areas, Mornington Peninsular and all Regional Areas*	Yes	1300 546 348 0412 111 600 E: info@drainsolutions.com.au
Dunlop & Pitson Earthmoving - *Bendigo* *Bendigo Region*	No	(03) 5441 1809 0419 761 427 F: (03) 5441 5571 E: tim@dpearth.com.au
Earthscan Technology Pty Ltd - *Ballarat* *Central and South West*	No	0402 210 445 F: (03) 5331 7611 E: njcahir@hotmail.com
Echuca and District Cable Locations - *Echuca* *Northern VIC, Southern NSW*	Yes	0419 001 843

Name & areas covered	Fibre	Contact details
Eiicon Locations - *Wodonga* *Wodonga, Albury, Wagga Wagga, Wangaratta, Towong Shire, Alpine Shire, Indigo Shire*	Yes	0419 568 331
EJ Russell Plant Hire - *Colac*	Yes	(03) 5231 2630 0428 874 832 F: (03) 5232 2848
Environmental Locations Systems - *Hallam* *Metropolitan Melbourne and all of Victoria*	Yes	(03) 9314 5335 0414 352 472
Fletcher Plumbing – *Southern NSW and North East Victoria*	No	(02) 6057 1100 0404 030 305 F: (02)6043 3199
G.J & R.K Smith – *Mirboo North*	No	0409 803 583 E: rob-greg@bigpond.com
Geelong Cable Locations - *Geelong* *All areas*	Yes	0418 108 543 1800 449 543 E: info@geelongcablelocations.com.au
Geosafe Pty Ltd – *Airport West* *Melbourne & Country Victoria*	Yes	03 9336 4086 E: enquiries@geosafe.com.au W: www.geosafe.com.au
GeoScan Utility Location Service - *Torquay* *Victoria Statewide*	Yes	0417 309 710 F: (03) 5261 9619
Gippsland Pipe & Cable Locations - *Wy Yung* *Gippsland*	Yes	(03) 5152 4417 0409 386 817 F: (03) 5152 4480
Gippslocate - *Traralgon* *Gippsland*	Yes	(03) 5174 9831 0429 349 391 E: info@gippslocate.com.au
HMR Partners Aust Pty Ltd – *Lockwood Sth* *North Central Victoria*	No	0423 870207 E: hmrpartners@gmail.com
Hunter Geophysics – *Chadstone area* Melbourne, Geelong, Ballarat, the Mornington Peninsula and surrounding areas. Tasmanian appointments available on minimum 2 days call-out.	Yes	0488 501 261 (03) 9913 2259 david.hunter@huntergeophysics.com W: www.huntergeophysics.com
Independant Plumbing Inspirations – *Yarra Glen* *Yarra Glen & Yea area*	Yes	0411 111 839 E: Iplumbinspections@outlook.com
Juls Projects Pty Ltd – *Pakenham*	Yes	0417 511 114 E: craigj@julsprojects.com.au
Mark W Brehaut t/as Pipe & Cable Locating - *Ballarat* *Ballarat*	Yes	0402 411 843 F: 03 9011 9750 E: house3d@gmail.com
Maffra Trenching & Boring – *Traralgon* *Latrobe Valley*	Yes	(03) 5174 4108 0431 158 654 F: (03) 5175 0675 E: bore1@maffratrenching.com.au
Murray Valley Locating and Electrical – *Cobram* *Murray Valley, North East Victoria and Southern NSW*	Yes	0417 426 731 E: officemvle@gmail.com

Name & areas covered	Fibre	Contact details
On Point Utility Locating Pty Ltd - *Woodpark*	Yes	0405 149 529
Pipe & Cable Underground Solutions Pty Ltd – *Ascot Vale. Metro & Country*	No	0418 378 935
Pipeline Technology Services - *Marleston*	No	(08) 8351 7000 0419 878 220 F:(08) 8159 7537
Qest Environments – *North Geelong*	Yes	1300 308 172 After Hours: 0417 478 732 F: 1300 456 863
R & R McClure – *Castlemaine* *Bendigo, Castlemaine, Kyneton, Gisborne, Heathcote, Mildura, Robinvale, Ouyen*	Yes	(03) 5472 3256 F: (03) 5472 4558 E: admin@rrmcclure.com.au
Radiotech Geo-Structural Surveys- *Greensborough*	No	(03) 9444 9183 F: (03) 9434 4694
Riverina Horizontal Boring Pty Ltd - *Wodonga*	No	(02) 6059 1788 0419 149 153 F: (02) 6059 5090
SADB Directional Drilling – *Newton* *Adelaide, Metro and outer Regions*	Yes	(08) 8168 7200 E: reception@sadb.com.au W: www.SADB.com.au
Sensing Cables - *Toolangi*	Yes	0427 265 075 E: sensingcables@hotmail.com
Somerset Communications - *Wangaratta* *North East Victoria (Wangaratta, Bright, Yarrawonga, Mansfield, Benalla), Kiewa Valley, Corowa, Rutherglen*	Yes	0407 228 280
Spot on Group – *Swan Hill* *Central & North-East Vic, Southern NSW*	No	1300 531 431 0407 505 226 F: (03) 5032 1173
SR Excavations – *Newhaven* *South Gippsland, Bass Coast & Phillip Island*	Yes	0418 537 278 E: admin@srexcavations.com.au
Steger & Associates Registered Land Surveyors – *Kambah* *Southern NSW, ACT, Northern and Eastern VIC*	Yes	(02) 6296 4089 F: 02 6296 4090 E: enquiries@steger.com
Swanson Site Services – *North Shore* *Geelong Region, Western Victoria & Greater Melbourne*	Yes	0403 883 454 E: info@swansonsurveying.com.au
Symes Contracting Services - *Wangaratta* *North East Victoria*	No	0427 215 600 E: wsymes1@bigpond.com
Ted Finchett Pty Ltd - *Hamilton* *South West Vic*	No	(03) 5572 3388
UES (Victoria) Pty Ltd - *Kyabram* *Northern Victoria, Goulburn Valley, Southern Riverina*	Yes	0407 120 201 F: (03) 5852 1577 E: uesvicptyltd@bigpond.com

Name & areas covered	Fibre	Contact details
Underground Locating Services - *Devon Meadows Gippsland, Mornington Peninsula*	Yes	0414 409 619
Underground Services Detection Pty Ltd - *Taylors Lakes*	Yes	0401 268 915 F: (03) 8390 9574
Underground Service Detectives - *Hawthorn East Melbourne and Greater Metropolitan Area*	No	1300 781 486 0418 995 975
Underground Service Solutions – *Macedon Ranges All Areas*	Yes	0402 071198 E: Underground.solutions13@gmail.com
Utility Mapping (Aust) Pty Ltd – *Port Melbourne*	Yes	0455 596 000 E: info@utilitymapping.com.au W: www.utilitymapping.com.au
Utility Vision Pty Ltd - *Craigieburn All of Victoria*	Yes	(03) 9333 8435 0409 525 973 E: clayton@utilityvision.com.au
Vac Group Operations Pty Ltd t/as Earthspy - *Melbourne Melbourne, Gippsland, Bendigo, Ballarat*	Yes	1300 822 834 M: 0447 466 566
Watters Electrical Pty Ltd – *Shepparton & Mildura based*	Yes	(03) 5821 3944 F: (03) 5831 1101

Cable Plan



A100

1xP32 SUBDUCTS
c4:M401-600 200 MB
102:YY-AX/1-120 120F/- SMOF F
3001:AB-AD/1-12 12F/- SMOF FI
1xP32 SUBDUCTS
c4:M1-200 200/0.40 MB
EARTH WIRE 19/2.14

Telstra

For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 07/10/2015 08:32:25

Sequence Number: 48330358

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

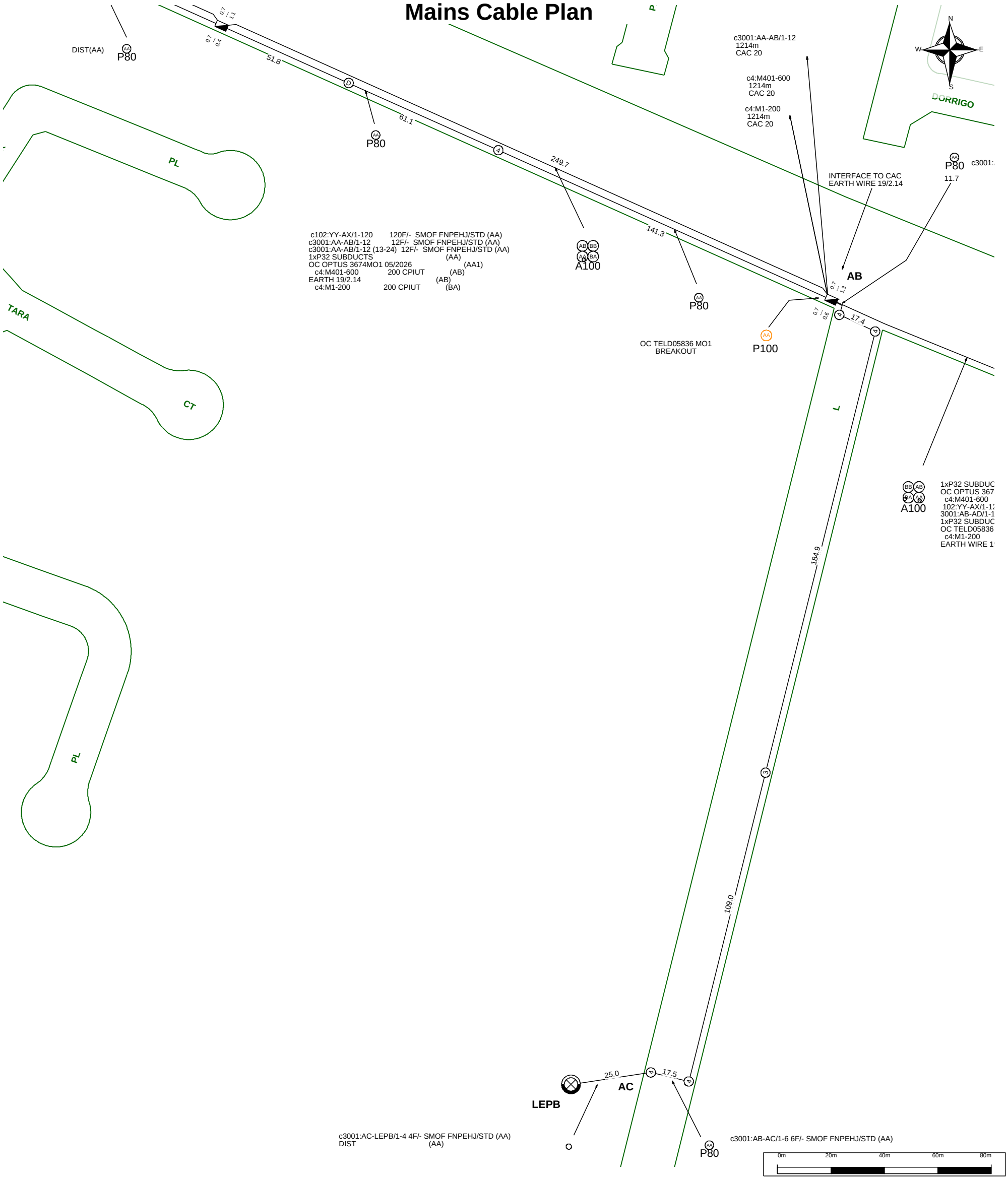
WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Mains Cable Plan



Telstra	For all Telstra DBYD plan enquiries - email - Telstra.Plans@team.telstra.com For urgent onsite contact only - ph 1800 653 935 (bus hrs)
TELSTRA CORPORATION LIMITED A.C.N. 051 775 556	
Generated On 07/10/2015 08:32:29	Sequence Number: 48330358
	CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Appendix 10: Site Inspection Photographs

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

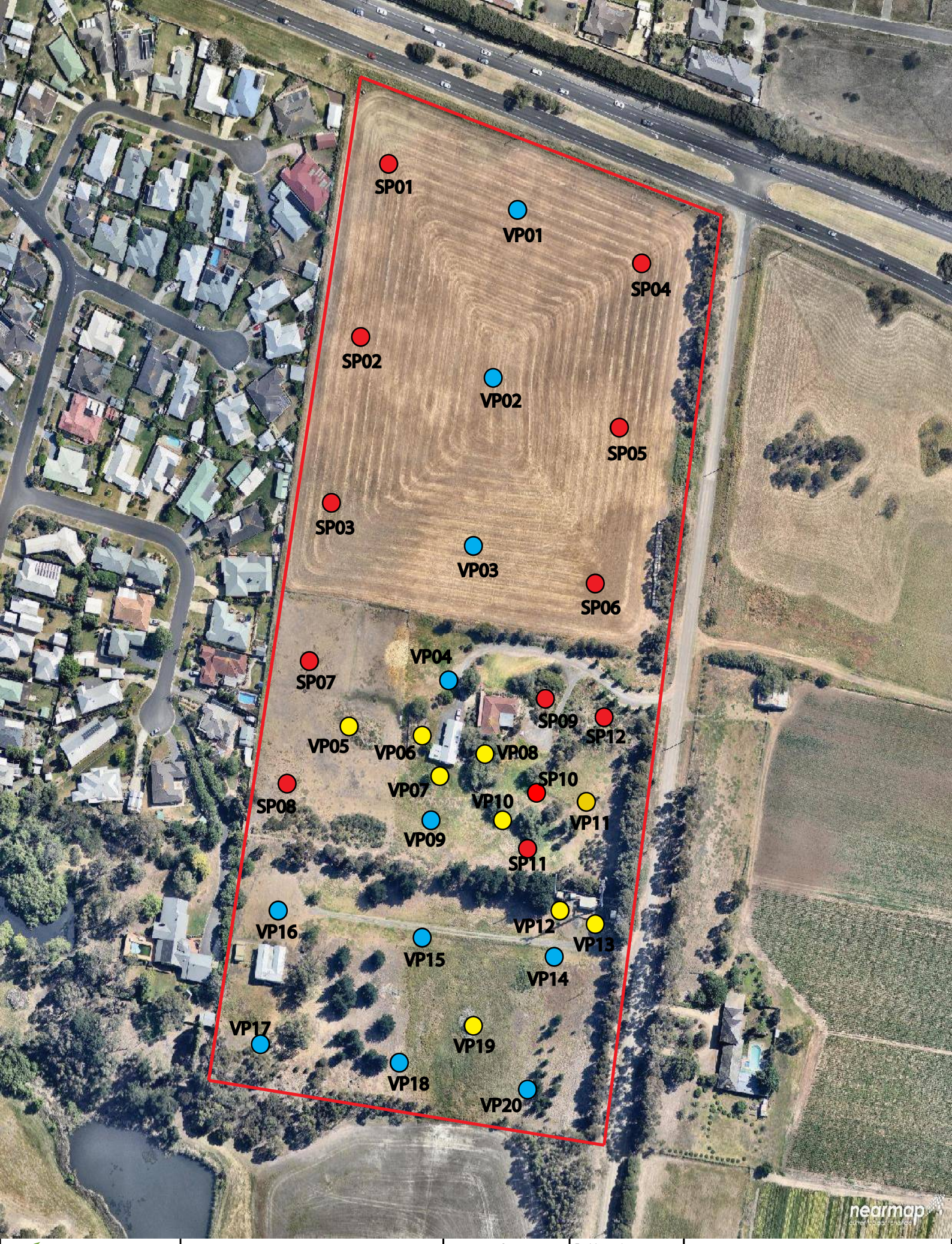
Photo 8

Photo 9

Photo 10

Photo Number	Description
1	Storage shed located next to garage on block 22-30. Orientation - Facing South
2	Garage located adjacent to house on block 22-30. Orientation - Facing North
3	Backyard area South of house on block 22-30. *House obscured by trees Orientation – Facing North
4	Block 22-30 Landscape
5	Block 32-40 Landscape. Orientation - Facing South-West
6	Building (appeared to be uninhabited) south side of asphalt court, Block 92-120 orientation – Facing Southwest
7	Uninhabited building, (possible old school / scout hall) located north side of asphalt court, block 92-120. Orientation – Facing West
8	Unmaintained horticulture / Greenhouse area, block 92-120 Orientation - Facing Northeast.
9	Pasture fields located South end of block 92-120 Orientation – Facing Southwest
10	Landscape, block 42-90 Orientation – Facing Northeast

Appendix 11: Sample Locations



Environmental
Site Assessments
Phone: 03 5221 8136
office@esagroup.com.au
PO Box 3106,
Waurn Ponds, VIC 3216
www.esagroup.com.au

Legend

- Previously Samped Location
- Grid Samped Location
- Target Samped Location

Aerial sourced from Nearmap

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	20.07.16
File:	Sample Locations.pdf		

N

0 Metres 30

Title:	Sample Locations
Project:	Mollers Lane
Location:	2-20, 22-30 & 32-40 Mollers Lane, Leopold
Client:	Mollers Lane Developments

Environmental Site Assessments
Phone: 03 5221 8136
office@esagroup.com.au
PO Box 3106,
Waurn Ponds, VIC 3216
www.esagroup.com.au

Legend

- Previously Samped Location
- Grid Samped Location
- Target Samped Location

Aerial sourced from Nearmap

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	20.07.16
File:	Sample Locations.pdf		

N

0 Metres 30

Title:	Sample Locations
Project:	Mollers Lane
Location:	42-90 Mollers Lane, Leopold
Client:	Mollers Lane Developments

Environmental Site Assessments
Phone: 03 5221 8136
office@esagroup.com.au
PO Box 3106,
Waurn Ponds, VIC 3216
www.esagroup.com.au

Legend

- Previously Samped Location
- Grid Samped Location
- Target Samped Location

Aerial sourced from Nearmap

Designed:	A.Stephens	Revision:	1
Drawn:	A.Stephens	Date:	20.07.16
File:	Sample Locations.pdf		

N

0 Metres 30

Title:	Sample Locations
Project:	Mollers Lane
Location:	92-120 Mollers Lane, Leopold
Client:	Mollers Lane Developments

Appendix 12: Laboratory Chain of Custody Forms and Certificates of Analysis

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date): 1/10	Custody Seal Intact?	Yes / No / N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~150211ESA~~ ME1347/16	Ice / frozen ice bricks present?	Yes / No / N/A
PROJECT: Mollers Lane, Leopold	COC SEQUENCE NUMBER (Circle) COC: (1) 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Seton Lilas CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:	
SAMPLER: A.Stephens SAMPLER MOBILE: 0428 889 276			
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au			
Email Invoice to: accounts@esagroup.com.au			

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
A.Stephens	~~Tom~~ (AV)		
DATE/TIME: 22/7/16 17:50	DATE/TIME: 17:55, 22.7	DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		Hold			
1	VP01/0-0.15	21/7 10:50	S	Soil Jar	1	X								
2	VP01/0.15-0.3										X			
3	VP02/0-0.15	11:00				X								
4	VP02/0.15-0.3										X			
5	VP03/0-0.15	11:10				X								
6	VP03/0.15-0.3										X			
7	VP04/0-0.15	11:30				X								
8	VP04/0.15-0.3										X			
9	VP05/0-0.15	11:40					X	X						
10	VP05/0.15-0.3										X			
11	VP06/0-0.15	12:15							X					
12	VP06/0.15-0.3										X			
13	VP07/0-0.15	11:50							X					
14	VP07/0.15-0.3										X			
15	VP08/0-0.15	12:00							X					
					TOTAL	15	4	1	1	3		7		

Environmental Division
Melbourne
Work Order Reference
EM1608710

Telephone : + 61-3-8549 9600

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):		FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date): 2/10		Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~4002TESA~~	COC SEQUENCE NUMBER (Circle)	Ice / frozen ice bricks present? Yes No N/A
PROJECT:		COC: 1 (2) 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276		

	RELINQUISHED BY:	RECEIVED BY: Tom (AU)	RELINQUISHED BY:
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au	DATE/TIME:	DATE/TIME: 17:55, 22-7	DATE/TIME:
Email Invoice to: accounts@esagroup.com.au			
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	Method of Delivery: Courier ☐	Hand Delivered ☒	Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		HOLD			
16	VP08/0.15-0.3	21/7	S	Soil Jar	1						X			
17	VP09/0-0.15	12:30					X	X						
18	VP09/0.15-0.3										X			
19	VP10/0-0.15	12:40					X	X						
20	VP10/0.15-0.3										X			
21	VP11/0-0.15	12:50					X	X						
22	VP11/0.15-0.3										X			
23	VP12/0-0.15	13:15							X					
24	VP12/0.15-0.3										X			
25	VP13/0-0.15	13:10					X	X						
26	VP13/0.15-0.3										X			
27	VP14/0-0.15	13:40					X	X						
28	VP14/0.15-0.3										X			
29	VP15/0-0.15	13:45					X	X						
30	VP15/0.15-0.3										X			
				TOTAL	15		6	6	1		8			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS :	☒ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS		☐ Non Standard or urgent TAT (List due date): 3/10	Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~150211EOA~~	COC SEQUENCE NUMBER (Circle)	Ice / frozen ice bricks present? Yes No N/A
PROJECT:		COC: 1 2 (3) 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comments:
SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
	Tom (AU)		
DATE/TIME:	DATE/TIME: 17:55, 22/7	DATE/TIME:	DATE/TIME:

Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		Hold			
31	VP16/0-0.15	21/7 14:00	S	Soil Jar	1	X								
32	VP16/0.15-0.3										X			
33	VP17/0-0.15	14:05					X	X						
34	VP17/0.15-0.3										X			
35	VP18/0-0.15	13:50					X	X						
36	VP18/0.15-0.3										X			
37	VP19/0-0.15	13:25					X	X						
38	VP19/0.15-0.3										X			
39	VP20/0-0.15	13:30				X			—					
40	VP20/0.15-0.3										X			
41	VP21/0-0.15	14:10					X	X						
42	VP21/0.15-0.3										X			
43	VP22/0-0.15	14:15				X								
44	VP22/0.15-0.3										X			
45	VP23/0-0.15	14:20					X	X						
				TOTAL	15	3	5	5			7			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)	
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date): 4/10	Custody Seal Intact?	Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~180211ESA~~	Ice / frozen ice bricks present?	Yes No N/A
PROJECT:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 (4) 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Seton Lilas CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:	

SAMPLER: A.Stephens SAMPLER MOBILE: 0428 889 276	RELINQUISHED BY:	RECEIVED BY: Tom (AU)	RELINQUISHED BY:
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au	DATE/TIME:	DATE/TIME: 17:55, 22-)	DATE/TIME:
Email Invoice to: accounts@esagroup.com.au			

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		Hold			
46	VP23/0.15-0.3	21/7	S	Soil Jar	1						X			
47	VP24/0-0.15	14:25				X								
48	VP24/0.15-0.3	[redacted]									X			
49	VP25/0-0.15	15:00					X	X						
50	VP25/0.15-0.3										X			
51	VP26/0-0.15	16:00				X								
52	VP26/0.15-0.3										X			
53	VP27/0-0.15	16:10					X	X						
54	VP27/0.15-0.3										X			
55	VP28/0-0.15	16:15					X	X						
56	VP28/0.15-0.3										X			
57	VP29/0-0.15	15:15					X	X						
58	VP29/0.15-0.3										X			
59	VP30/0-0.15	15:00							X					
60	VP30/0.15-0.3										X			
				TOTAL	15	2	4	4	1		8			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):		FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date): 5/10		Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~150211ESA~~	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 (5) 6 7	Ice / frozen ice bricks present? Yes No N/A
PROJECT:		OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878		Other comment:
SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
	Tom (ALS)		
DATE/TIME:	DATE/TIME: 17:55, 22/7	DATE/TIME:	DATE/TIME:

Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		HOLD			
61	VP31/0-0.15	21/7 15:25	S	Soil Jar	1				X					
62	VP31/0.15-0.3										X			
63	VP32/0-0.15	15:30				X								
64	VP32/0.15-0.3										X			
65	VP33/0-0.15	15:50							X					
66	VP33/0.15-0.3										X			
67	VP34/0-0.15	15:45					X	X						
68	VP34/0.15-0.3										X			
69	VP35/0-0.15	15:40				X								
70	VP35/0.15-0.3	21/7 22/7									X			
71	VP36/0-0.15	22/7 9:15							X					
72	VP36/0.15-0.3										X			
73	VP37/0-0.15	9:20				—	X	X						
74	VP37/0.15-0.3					—					X			
75	VP38/0-0.15	9:30				X								
					TOTAL	15	3	2	2	3		7		

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date): ☐ Non Standard or urgent TAT (List due date): 6/10	FOR LABORATORY USE ONLY (Circle)	
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS		Custody Seal Intact?	Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~150211ESA~~	Ice / frozen ice bricks present?	Yes No N/A
PROJECT:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 (6) 7 OF: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Seton Lilas CONTACT PH: 0433 747 1878		Other comment:	
SAMPLER: A.Stephens SAMPLER MOBILE: 0428 889 276	RELINQUISHED BY:	RECEIVED BY: Tom (AUS)	RELINQUISHED BY:
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au	DATE/TIME:	DATE/TIME: 17:55, 22-7	DATE/TIME:
Email Invoice to: accounts@esagroup.com.au			RECEIVED BY:
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐		DATE/TIME:

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		Hold			
76	VP38/0.15-0.3	22/7	S	Soil Jar	1						X			
77	VP39/0-0.15	9:40				X								
78	VP39/0.15-0.3										X			
79	VP40/0-0.15	9:50							X					
80	VP40/0.15-0.3										X			
81	VP41/0-0.15	10:15							X					
82	VP41/0.15-0.3										X			
83	VP42/0-0.15	10:05					X	X						
84	VP42/0.15-0.3										X			
85	VP43/0-0.15	10:00							X					
86	VP43/0.15-0.3										X			
87	VP44/0-0.15	10:30							X					
88	VP44/0.15-0.3										X			
89	VP45/0-0.15	10:55					X	X						
90	VP45/0.15-0.3										X			
				TOTAL	15	1	2	2	4		8			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date): 7/10	FOR LABORATORY USE ONLY (Circle)	
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?	Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~158241ESA~~	Ice / frozen ice bricks present?	Yes No N/A
PROJECT:	COC SEQUENCE NUMBER (Circle) COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt:	°C
PROJECT MANAGER: Seton Lilas CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:	
SAMPLER: A.Stephens SAMPLER MOBILE: 0428 889 276	RELINQUISHED BY:	RECEIVED BY: Tom (AUS)	RELINQUISHED BY:
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au	DATE/TIME:	DATE/TIME: 17:55, 22/7	DATE/TIME:
Email Invoice to: accounts@esagroup.com.au			
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐		

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		Hold			
91	VP46/0-0.15	22/7 10:50	S	Soil Jar	1		X	X						
92	VP46/0.15-0.3										X			
93	VP47/0-0.15	10:45				X								
94	VP47/0.15-0.3										X			
95	VP48/0-0.15	10:40					X	X						
96	VP48/0.15-0.3										X			
97	VP49/0-0.15	11:20				X								
98	VP49/0.15-0.3										X			
99	VP50/0-0.15	11:10					X	X						
100	VP50/0.15-0.3										X			
101	VP51/0-0.15	11:00				X								
102	VP51/0.15-0.3										X			
103	VP52/0-0.15	11:50					X	X						
104	VP52/0.15-0.3										X			
105	VP53/0-0.15	11:40				X								
					TOTAL	15	4	4	4		7			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS

CLIENT: ENVIRONMENTAL SITE ASSESSMENTS

OFFICE: PO BOX 3106, WAURN PONDS VIC 3216

PROJECT:

PROJECT MANAGER: Seton Lilas — CONTACT PH: 0433 747 1878

SAMPLER: A.Stephens — SAMPLER MOBILE: 0428 889 276

Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date): 8/10

☐ Non Standard or urgent TAT (List due date):

QUOTE NO.: ~~150211ESA~~

COC SEQUENCE NUMBER (Circle)

COC: 1 2 3 4 5 6 7

OF: 1 2 3 4 5 6 7

FOR LABORATORY USE ONLY (Circle)

Custody Seal Intact? Yes No N/A

Ice / frozen ice bricks present? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comment:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	Tom (AU) DATE/TIME: 17:55, 22/7	DATE/TIME:	DATE/TIME:

Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P21/1a	S-12	S-3	S-26		HM			
106	VP53/0.15-0.3	22/7	S	Soil Jar	1						X			
107	VP54/0-0.15	11:35					X	X						
108	VP54/0.15-0.3										X			
109	VP55/0-0.15	11:30				X								
110	VP55/0.15-0.3										X			
111	VP56/0-0.15	10:50					X	X						
112	VP56/0.15-0.3										X			
113	VP57/0-0.15	12:45				X								
114	VP57/0.15-0.3										X			
115	VP58/0-0.15	12:40					X	X						
116	VP58/0.15-0.3										X			
117	VP59/0-0.15	12:35					X	X						
118	VP59/0.15-0.3										X			
119	VP60/0-0.15	12:25					X	X						
120	VP60/0.15-0.3										X			
				TOTAL	15	2	5	5			8			

Environmental Site Assessments

CHAIN OF CUSTODY

LAB: ALS	TURNAROUND REQUIREMENTS :	☒ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS		☐ Non Standard or urgent TAT (List due date): 9/10	Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~150211ESA~~	COC SEQUENCE NUMBER (Circle)	Ice / frozen ice bricks present? Yes No N/A
PROJECT:		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE/TIME:	Tom (ALS) DATE/TIME: 17:55, 22/7	DATE/TIME:	DATE/TIME:

Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	NEPM P2i/1a	S-12	S-3	S-26		Hold	TRH C6-C40	C6-C10 BTEXN	
121	VP61/0-0.15	22/7 12:20	S	Soil Jar	1	X								
122	VP61/0.15-0.3	↓	↓	↓	1						X			
123	VP62/0-0.15	12:15			1		X	X						
124	VP62/0.15-0.3	↓	↓	↓	1						X			
125	QC01	21/7	W	60mlP, 150mlA, 2x40mlV	4		X	X				X		
126	QC02	↓	S	Soil Jar	1				X					
127	QC04		S	Soil Jar	1		X	X						
128	QC06		W	40mlV	1								X	
129	QC07		W	40mlV	1								X	
130	QC08		W	40mlV	1								X	
131	QC09		W	40mlV	1								X	
132	QC11	↓	W	60mlP, 150mlA, 2x40mlV	4		X	X				X		
133	QC12	22/7	W	" " "	4		X	X				X		
134	QC13	↓	S	Soil Jar	1				X					
135	QC15	↓	W	40mlV	1								X	
				TOTAL	24	1	5	5	2		2	3	5	

CHAIN OF CUSTODY

Environmental Site Assessments

LAB: ALS	TURNAROUND REQUIREMENTS: ☒ Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS	☐ Non Standard or urgent TAT (List due date): 10/10	Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: ~~MEBQ 159-19V2~~	COC SEQUENCE NUMBER (Circle) / Ice / frozen ice bricks present: Yes No N/A
PROJECT:		COC: 1 2 3 4 5 6 7 / Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7 / Other comment:

SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276	RELINQUISHED BY:	RECEIVED BY: Tom (ALS)
Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au		DATE/TIME:	DATE/TIME: 17:55, 22-7
Email Invoice to: accounts@esagroup.com.au		RELINQUISHED BY:	RECEIVED BY:
		DATE/TIME:	DATE/TIME:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: Method of Delivery: Courier ☐ Hand Delivered ☒ Postal ☐

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	C6-C10 BTEXN	5-12	5-3	TRH C6-C40					
N.R ~~136~~	QC16	22/7	W	40ml V	1	X								
N.R ~~137~~	QC17	↓	W	40m V	1	X								
138.	QC18	↓	W		4		X	X	X					
	Extra Sample.													
139	QC14	22/7	W	1 x vial										
				TOTAL	6	2	1	1	1					

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1608710**	Page	: 1 of 77
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Contact	: Carol Walsh
Address	: P.O. BOX 3106 WAURN PONDS VIC 3216	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9608
Project	: Mollers Lane, Leopold	Date Samples Received	: 22-Jul-2016 17:55
Order number	: ----	Date Analysis Commenced	: 26-Jul-2016
C-O-C number	: ----	Issue Date	: 29-Jul-2016 17:20
Sampler	: ----		
Site	: ----		
Quote number	: ----		
No. of samples received	: 138		
No. of samples analysed	: 76		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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
Nancy Wang	Senior Semivolatile Instrument Chemist	Melbourne Organics, 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 sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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.

- EG020T: Results for EM1608710-133 and 138 have been confirmed by re-preparation and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP01/0-0.15	VP02/0-0.15	VP03/0-0.15	VP04/0-0.15	VP05/0-0.15
			Client sampling date / time	21-Jul-2016 10:50	21-Jul-2016 11:00	21-Jul-2016 11:10	21-Jul-2016 11:30	21-Jul-2016 11:40
Compound	CAS Number	LOR	Unit	EM1608710-001	EM1608710-003	EM1608710-005	EM1608710-007	EM1608710-009
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	14.4	14.0	12.1	11.3	13.9
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	20	20	20	20	20
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	3	<2	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	23	18	27	22	33
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	47	38	28	102	14
Arsenic	7440-38-2	5	mg/kg	7	6	6	10	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	16	13	12	48	6
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	12	17	19	21	28
Nickel	7440-02-0	2	mg/kg	4	3	3	5	2
Zinc	7440-66-6	5	mg/kg	13	9	11	16	27
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	<1	<1	<1	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP01/0-0.15	VP02/0-0.15	VP03/0-0.15	VP04/0-0.15	VP05/0-0.15
				Client sampling date / time	21-Jul-2016 10:50	21-Jul-2016 11:00	21-Jul-2016 11:10	21-Jul-2016 11:30	21-Jul-2016 11:40
Compound	CAS Number	LOR	Unit		EM1608710-001	EM1608710-003	EM1608710-005	EM1608710-007	EM1608710-009
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	**0.09**	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	**0.17**
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		<0.20	<0.20	<0.20	<0.20	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	**0.09**	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	**0.17**
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP01/0-0.15	VP02/0-0.15	VP03/0-0.15	VP04/0-0.15	VP05/0-0.15
			Client sampling date / time	21-Jul-2016 10:50	21-Jul-2016 11:00	21-Jul-2016 11:10	21-Jul-2016 11:30	21-Jul-2016 11:40
Compound	CAS Number	LOR	Unit	EM1608710-001	EM1608710-003	EM1608710-005	EM1608710-007	EM1608710-009
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines								
Atrazine	1912-24-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
EP068D: Pyrethroids								
Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	<2	<2	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP01/0-0.15	VP02/0-0.15	VP03/0-0.15	VP04/0-0.15	VP05/0-0.15
				Client sampling date / time	21-Jul-2016 10:50	21-Jul-2016 11:00	21-Jul-2016 11:10	21-Jul-2016 11:30	21-Jul-2016 11:40
Compound	CAS Number	LOR	Unit		EM1608710-001	EM1608710-003	EM1608710-005	EM1608710-007	EM1608710-009
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**105**	**107**	**111**	**85.7**	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP01/0-0.15	VP02/0-0.15	VP03/0-0.15	VP04/0-0.15	VP05/0-0.15
				Client sampling date / time	21-Jul-2016 10:50	21-Jul-2016 11:00	21-Jul-2016 11:10	21-Jul-2016 11:30	21-Jul-2016 11:40
Compound	CAS Number	LOR	Unit		EM1608710-001	EM1608710-003	EM1608710-005	EM1608710-007	EM1608710-009
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		92.5	94.5	98.5	113	118
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		78.5	81.4	103	68.6	97.2
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		78.9	83.8	80.1	78.2	----
2-Chlorophenol-D4	93951-73-6	0.5	%		82.6	81.8	82.2	81.4	----
2.4.6-Tribromophenol	118-79-6	0.5	%		64.5	48.1	66.4	63.9	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		101	89.8	108	98.4	----
Anthracene-d10	1719-06-8	0.5	%		109	120	118	103	----
4-Terphenyl-d14	1718-51-0	0.5	%		105	96.6	84.0	105	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		73.6	79.1	76.7	82.1	----
Toluene-D8	2037-26-5	0.2	%		82.5	81.1	82.1	86.7	----
4-Bromofluorobenzene	460-00-4	0.2	%		88.4	82.8	88.3	94.2	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP06/0-0.15	VP07/0-0.15	VP08/0-0.15	VP09/0-0.15	VP10/0-0.15
			Client sampling date / time	21-Jul-2016 12:15	21-Jul-2016 11:50	21-Jul-2016 12:00	21-Jul-2016 12:30	21-Jul-2016 12:40
Compound	CAS Number	LOR	Unit	EM1608710-011	EM1608710-013	EM1608710-015	EM1608710-017	EM1608710-019
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	13.7	15.1	13.5	18.6	12.7
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	----	----	40	20
Beryllium	7440-41-7	1	mg/kg	----	----	----	<1	<1
Boron	7440-42-8	50	mg/kg	----	----	----	<50	<50
Cobalt	7440-48-4	2	mg/kg	----	----	----	2	<2
Manganese	7439-96-5	5	mg/kg	----	----	----	60	107
Selenium	7782-49-2	5	mg/kg	----	----	----	<5	<5
Vanadium	7440-62-2	5	mg/kg	----	----	----	22	12
Arsenic	7440-38-2	5	mg/kg	6	10	14	7	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	9	20	22	11	4
Copper	7440-50-8	5	mg/kg	8	15	23	9	<5
Lead	7439-92-1	5	mg/kg	159	31	302	61	29
Nickel	7440-02-0	2	mg/kg	3	6	8	6	<2
Zinc	7440-66-6	5	mg/kg	153	90	283	144	98
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.4	<0.1	0.2	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP06/0-0.15	VP07/0-0.15	VP08/0-0.15	VP09/0-0.15	VP10/0-0.15
				Client sampling date / time	21-Jul-2016 12:15	21-Jul-2016 11:50	21-Jul-2016 12:00	21-Jul-2016 12:30	21-Jul-2016 12:40
Compound	CAS Number	LOR	Unit		EM1608710-011	EM1608710-013	EM1608710-015	EM1608710-017	EM1608710-019
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		----	----	----	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	----	----	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		----	----	----	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		----	----	----	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	----	----	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		----	----	----	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		----	----	----	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	----	----	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	----	----	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		----	----	----	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		----	----	----	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	----	----	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		----	----	----	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	----	----	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	----	----	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		----	----	----	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	----	----	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		----	----	----	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		----	----	----	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		----	----	----	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	----	----	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		----	----	----	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	----	----	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		----	----	----	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		----	----	----	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP06/0-0.15	VP07/0-0.15	VP08/0-0.15	VP09/0-0.15	VP10/0-0.15
			Client sampling date / time	21-Jul-2016 12:15	21-Jul-2016 11:50	21-Jul-2016 12:00	21-Jul-2016 12:30	21-Jul-2016 12:40
Compound	CAS Number	LOR	Unit	EM1608710-011	EM1608710-013	EM1608710-015	EM1608710-017	EM1608710-019
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	----	----	----	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	----	----	----	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	----	<0.05	<0.05
EP068C: Triazines								
Atrazine	1912-24-9	0.05	mg/kg	----	----	----	----	----
EP068D: Pyrethroids								
Bifenthrin	82657-04-3	0.05	mg/kg	----	----	----	----	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	----	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg	----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	**0.5**	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP06/0-0.15	VP07/0-0.15	VP08/0-0.15	VP09/0-0.15	VP10/0-0.15
				Client sampling date / time	21-Jul-2016 12:15	21-Jul-2016 11:50	21-Jul-2016 12:00	21-Jul-2016 12:30	21-Jul-2016 12:40
Compound	CAS Number	LOR	Unit		EM1608710-011	EM1608710-013	EM1608710-015	EM1608710-017	EM1608710-019
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		**0.5**	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP06/0-0.15	VP07/0-0.15	VP08/0-0.15	VP09/0-0.15	VP10/0-0.15
				Client sampling date / time	21-Jul-2016 12:15	21-Jul-2016 11:50	21-Jul-2016 12:00	21-Jul-2016 12:30	21-Jul-2016 12:40
Compound	CAS Number	LOR	Unit		EM1608710-011	EM1608710-013	EM1608710-015	EM1608710-017	EM1608710-019
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	----	----	116	99.0
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	----	----	108	108
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		88.9	92.6	88.0	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		75.5	79.7	75.1	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		61.2	65.5	59.7	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		95.0	99.8	94.6	----	----
Anthracene-d10	1719-06-8	0.5	%		93.4	99.8	95.4	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		86.2	91.2	86.8	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		81.3	76.2	81.1	----	----
Toluene-D8	2037-26-5	0.2	%		86.1	81.9	85.4	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		92.2	87.4	89.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP11/0-0.15	VP12/0-0.15	VP13/0-0.15	VP14/0-0.15	VP15/0-0.15
			Client sampling date / time	21-Jul-2016 12:50	21-Jul-2016 13:15	21-Jul-2016 13:10	21-Jul-2016 13:40	21-Jul-2016 13:45
Compound	CAS Number	LOR	Unit	EM1608710-021	EM1608710-023	EM1608710-025	EM1608710-027	EM1608710-029
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	14.3	9.8	10.7	12.8	14.8
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	20	----	<10	20	10
Beryllium	7440-41-7	1	mg/kg	<1	----	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	----	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	----	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	50	----	9	43	37
Selenium	7782-49-2	5	mg/kg	<5	----	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	18	----	21	30	10
Arsenic	7440-38-2	5	mg/kg	<5	<5	7	5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	9	41	8	11	4
Copper	7440-50-8	5	mg/kg	<5	51	<5	<5	<5
Lead	7439-92-1	5	mg/kg	23	<5	7	21	18
Nickel	7440-02-0	2	mg/kg	2	159	3	3	2
Zinc	7440-66-6	5	mg/kg	23	58	8	18	18
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP11/0-0.15	VP12/0-0.15	VP13/0-0.15	VP14/0-0.15	VP15/0-0.15
				Client sampling date / time	21-Jul-2016 12:50	21-Jul-2016 13:15	21-Jul-2016 13:10	21-Jul-2016 13:40	21-Jul-2016 13:45
Compound	CAS Number	LOR	Unit		EM1608710-021	EM1608710-023	EM1608710-025	EM1608710-027	EM1608710-029
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP11/0-0.15	VP12/0-0.15	VP13/0-0.15	VP14/0-0.15	VP15/0-0.15
				Client sampling date / time	21-Jul-2016 12:50	21-Jul-2016 13:15	21-Jul-2016 13:10	21-Jul-2016 13:40	21-Jul-2016 13:45
Compound	CAS Number	LOR	Unit		EM1608710-021	EM1608710-023	EM1608710-025	EM1608710-027	EM1608710-029
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	----	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	----	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	----	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP11/0-0.15	VP12/0-0.15	VP13/0-0.15	VP14/0-0.15	VP15/0-0.15
				Client sampling date / time	21-Jul-2016 12:50	21-Jul-2016 13:15	21-Jul-2016 13:10	21-Jul-2016 13:40	21-Jul-2016 13:45
Compound	CAS Number	LOR	Unit		EM1608710-021	EM1608710-023	EM1608710-025	EM1608710-027	EM1608710-029
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		----	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		----	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP11/0-0.15	VP12/0-0.15	VP13/0-0.15	VP14/0-0.15	VP15/0-0.15
				Client sampling date / time	21-Jul-2016 12:50	21-Jul-2016 13:15	21-Jul-2016 13:10	21-Jul-2016 13:40	21-Jul-2016 13:45
Compound	CAS Number	LOR	Unit		EM1608710-021	EM1608710-023	EM1608710-025	EM1608710-027	EM1608710-029
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		109	----	114	116	117
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		98.9	----	93.6	84.6	99.4
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	92.1	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	78.6	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	64.2	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	98.6	----	----	----
Anthracene-d10	1719-06-8	0.5	%		----	96.2	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	89.0	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	83.8	----	----	----
Toluene-D8	2037-26-5	0.2	%		----	89.7	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	96.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP16/0-0.15	VP17/0-0.15	VP18/0-0.15	VP19/0-0.15	VP20/0-0.15
			Client sampling date / time	21-Jul-2016 14:00	21-Jul-2016 14:05	21-Jul-2016 13:50	21-Jul-2016 13:25	21-Jul-2016 13:30
Compound	CAS Number	LOR	Unit	EM1608710-031	EM1608710-033	EM1608710-035	EM1608710-037	EM1608710-039
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	10.5	17.4	13.1	25.1	9.4
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	20	20	20	20	10
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	<2	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	28	44	42	52	13
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	15	36	8	25	26
Arsenic	7440-38-2	5	mg/kg	<5	7	<5	<5	7
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	6	8	4	7	7
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	17	20	20	25	8
Nickel	7440-02-0	2	mg/kg	<2	3	<2	4	<2
Zinc	7440-66-6	5	mg/kg	19	31	22	24	6
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	----	----	<0.5
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	----	----	----	<1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	<0.05	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP16/0-0.15	VP17/0-0.15	VP18/0-0.15	VP19/0-0.15	VP20/0-0.15
				Client sampling date / time	21-Jul-2016 14:00	21-Jul-2016 14:05	21-Jul-2016 13:50	21-Jul-2016 13:25	21-Jul-2016 13:30
Compound	CAS Number	LOR	Unit		EM1608710-031	EM1608710-033	EM1608710-035	EM1608710-037	EM1608710-039
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		<0.20	----	----	----	<0.20
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP16/0-0.15	VP17/0-0.15	VP18/0-0.15	VP19/0-0.15	VP20/0-0.15
			Client sampling date / time	21-Jul-2016 14:00	21-Jul-2016 14:05	21-Jul-2016 13:50	21-Jul-2016 13:25	21-Jul-2016 13:30
Compound	CAS Number	LOR	Unit	EM1608710-031	EM1608710-033	EM1608710-035	EM1608710-037	EM1608710-039
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines								
Atrazine	1912-24-9	0.05	mg/kg	<0.05	----	----	----	<0.05
EP068D: Pyrethroids								
Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	----	----	----	<0.05
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	----	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP16/0-0.15	VP17/0-0.15	VP18/0-0.15	VP19/0-0.15	VP20/0-0.15
				Client sampling date / time	21-Jul-2016 14:00	21-Jul-2016 14:05	21-Jul-2016 13:50	21-Jul-2016 13:25	21-Jul-2016 13:30
Compound	CAS Number	LOR	Unit		EM1608710-031	EM1608710-033	EM1608710-035	EM1608710-037	EM1608710-039
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	----	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	----	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**71.7**	----	----	----	**118**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP16/0-0.15	VP17/0-0.15	VP18/0-0.15	VP19/0-0.15	VP20/0-0.15
				Client sampling date / time	21-Jul-2016 14:00	21-Jul-2016 14:05	21-Jul-2016 13:50	21-Jul-2016 13:25	21-Jul-2016 13:30
Compound	CAS Number	LOR	Unit		EM1608710-031	EM1608710-033	EM1608710-035	EM1608710-037	EM1608710-039
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		116	119	118	118	118
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		99.2	80.6	96.1	93.5	87.6
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		81.7	----	----	----	78.1
2-Chlorophenol-D4	93951-73-6	0.5	%		85.1	----	----	----	82.7
2.4.6-Tribromophenol	118-79-6	0.5	%		64.2	----	----	----	60.5
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		101	----	----	----	86.9
Anthracene-d10	1719-06-8	0.5	%		103	----	----	----	103
4-Terphenyl-d14	1718-51-0	0.5	%		110	----	----	----	104
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		82.6	----	----	----	84.1
Toluene-D8	2037-26-5	0.2	%		85.7	----	----	----	87.8
4-Bromofluorobenzene	460-00-4	0.2	%		92.8	----	----	----	98.7

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP21/0-0.15	VP22/0-0.15	VP23/0-0.15	VP24/0-0.15	VP25/0-0.15
			Client sampling date / time	21-Jul-2016 14:10	21-Jul-2016 14:15	21-Jul-2016 14:20	21-Jul-2016 14:25	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit	EM1608710-041	EM1608710-043	EM1608710-045	EM1608710-047	EM1608710-049
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	8.8	10.4	12.0	11.9	14.3
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	10	<10	<10	<10	<10
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	<2	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	<5	<5	<5	<5	7
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	9	10	10	<5	20
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	2	3	4	2	5
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	8
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	<0.5	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	<1	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	<0.1	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP21/0-0.15	VP22/0-0.15	VP23/0-0.15	VP24/0-0.15	VP25/0-0.15
				Client sampling date / time	21-Jul-2016 14:10	21-Jul-2016 14:15	21-Jul-2016 14:20	21-Jul-2016 14:25	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-041	EM1608710-043	EM1608710-045	EM1608710-047	EM1608710-049
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		**0.17**	**0.12**	**0.12**	**0.08**	**0.11**
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	**0.05**	**0.06**	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	<0.20	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.17**	**0.12**	**0.12**	**0.08**	**0.11**
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	**0.05**	**0.06**	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP21/0-0.15	VP22/0-0.15	VP23/0-0.15	VP24/0-0.15	VP25/0-0.15
				Client sampling date / time	21-Jul-2016 14:10	21-Jul-2016 14:15	21-Jul-2016 14:20	21-Jul-2016 14:25	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-041	EM1608710-043	EM1608710-045	EM1608710-047	EM1608710-049
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	<0.05	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	<0.05	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	<0.5	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	<1	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	<0.5	----
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	<2	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP21/0-0.15	VP22/0-0.15	VP23/0-0.15	VP24/0-0.15	VP25/0-0.15
				Client sampling date / time	21-Jul-2016 14:10	21-Jul-2016 14:15	21-Jul-2016 14:20	21-Jul-2016 14:25	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-041	EM1608710-043	EM1608710-045	EM1608710-047	EM1608710-049
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	<10	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	<50	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	<100	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		----	<50	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg		----	<100	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	<50	----	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	<1	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**93.8**	----	**105**	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP21/0-0.15	VP22/0-0.15	VP23/0-0.15	VP24/0-0.15	VP25/0-0.15
				Client sampling date / time	21-Jul-2016 14:10	21-Jul-2016 14:15	21-Jul-2016 14:20	21-Jul-2016 14:25	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-041	EM1608710-043	EM1608710-045	EM1608710-047	EM1608710-049
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		114	118	100	98.1	98.7
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		103	113	81.0	84.4	81.0
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	80.0	----	88.7	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	84.6	----	92.0	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	61.0	----	68.7	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	79.4	----	97.5	----
Anthracene-d10	1719-06-8	0.5	%		----	102	----	94.4	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	107	----	105	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	79.1	----	75.9	----
Toluene-D8	2037-26-5	0.2	%		----	84.0	----	78.6	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	88.3	----	86.3	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP26/0-0.15	VP27/0-0.15	VP28/0-0.15	VP29/0-0.15	VP30/0-0.15
			Client sampling date / time	21-Jul-2016 16:00	21-Jul-2016 16:10	21-Jul-2016 16:15	21-Jul-2016 15:15	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit	EM1608710-051	EM1608710-053	EM1608710-055	EM1608710-057	EM1608710-059
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	9.5	16.3	12.1	11.9	23.3
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	<10	<10	10	30	----
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	----
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	----
Cobalt	7440-48-4	2	mg/kg	<2	<2	<2	4	----
Manganese	7439-96-5	5	mg/kg	<5	13	13	14	----
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	----
Vanadium	7440-62-2	5	mg/kg	6	11	13	54	----
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	9	20
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	<2	4	5	25	62
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	10	15	15
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	7	20
Zinc	7440-66-6	5	mg/kg	<5	6	8	13	14
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	<0.05	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP26/0-0.15	VP27/0-0.15	VP28/0-0.15	VP29/0-0.15	VP30/0-0.15
				Client sampling date / time	21-Jul-2016 16:00	21-Jul-2016 16:10	21-Jul-2016 16:15	21-Jul-2016 15:15	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-051	EM1608710-053	EM1608710-055	EM1608710-057	EM1608710-059
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg		**0.06**	<0.05	<0.05	<0.05	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Mirex	2385-85-5	0.2	mg/kg		<0.20	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		**0.06**	<0.05	<0.05	<0.05	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP26/0-0.15	VP27/0-0.15	VP28/0-0.15	VP29/0-0.15	VP30/0-0.15
				Client sampling date / time	21-Jul-2016 16:00	21-Jul-2016 16:10	21-Jul-2016 16:15	21-Jul-2016 15:15	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-051	EM1608710-053	EM1608710-055	EM1608710-057	EM1608710-059
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	----
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		<0.05	----	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		<0.05	----	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		<1	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		<2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP26/0-0.15	VP27/0-0.15	VP28/0-0.15	VP29/0-0.15	VP30/0-0.15
				Client sampling date / time	21-Jul-2016 16:00	21-Jul-2016 16:10	21-Jul-2016 16:15	21-Jul-2016 15:15	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-051	EM1608710-053	EM1608710-055	EM1608710-057	EM1608710-059
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	----	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	----	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**103**	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP26/0-0.15	VP27/0-0.15	VP28/0-0.15	VP29/0-0.15	VP30/0-0.15
				Client sampling date / time	21-Jul-2016 16:00	21-Jul-2016 16:10	21-Jul-2016 16:15	21-Jul-2016 15:15	21-Jul-2016 15:00
Compound	CAS Number	LOR	Unit		EM1608710-051	EM1608710-053	EM1608710-055	EM1608710-057	EM1608710-059
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		99.5	100	103	98.4	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		81.8	83.0	63.6	87.4	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		97.6	----	----	----	103
2-Chlorophenol-D4	93951-73-6	0.5	%		99.5	----	----	----	88.3
2.4.6-Tribromophenol	118-79-6	0.5	%		71.5	----	----	----	69.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		89.8	----	----	----	110
Anthracene-d10	1719-06-8	0.5	%		110	----	----	----	111
4-Terphenyl-d14	1718-51-0	0.5	%		108	----	----	----	99.9
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		78.5	----	----	----	79.4
Toluene-D8	2037-26-5	0.2	%		82.3	----	----	----	83.9
4-Bromofluorobenzene	460-00-4	0.2	%		83.7	----	----	----	94.4

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP31/0-0.15	VP32/0-0.15	VP33/0-0.15	VP34/0-0.15	VP35/0-0.15
			Client sampling date / time	21-Jul-2016 15:25	21-Jul-2016 15:30	21-Jul-2016 15:50	21-Jul-2016 15:45	21-Jul-2016 15:40
Compound	CAS Number	LOR	Unit	EM1608710-061	EM1608710-063	EM1608710-065	EM1608710-067	EM1608710-069
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	9.8	9.9	14.8	14.7	8.0
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	<10	----	20	<10
Beryllium	7440-41-7	1	mg/kg	----	<1	----	<1	<1
Boron	7440-42-8	50	mg/kg	----	<50	----	<50	<50
Cobalt	7440-48-4	2	mg/kg	----	<2	----	3	<2
Manganese	7439-96-5	5	mg/kg	----	12	----	21	<5
Selenium	7782-49-2	5	mg/kg	----	<5	----	<5	<5
Vanadium	7440-62-2	5	mg/kg	----	13	----	46	11
Arsenic	7440-38-2	5	mg/kg	<5	<5	29	13	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	6	5	14	20	4
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	10	6	8	7	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	4	6	<2
Zinc	7440-66-6	5	mg/kg	5	5	7	8	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	----	<0.5
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	----	<1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	----	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP31/0-0.15	VP32/0-0.15	VP33/0-0.15	VP34/0-0.15	VP35/0-0.15
				Client sampling date / time	21-Jul-2016 15:25	21-Jul-2016 15:30	21-Jul-2016 15:50	21-Jul-2016 15:45	21-Jul-2016 15:40
Compound	CAS Number	LOR	Unit		EM1608710-061	EM1608710-063	EM1608710-065	EM1608710-067	EM1608710-069
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		----	**0.08**	----	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		----	<0.2	----	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	----	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	----	<0.20
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	**0.08**	----	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	----	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	----	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		----	<0.2	----	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	----	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP31/0-0.15	VP32/0-0.15	VP33/0-0.15	VP34/0-0.15	VP35/0-0.15
				Client sampling date / time	21-Jul-2016 15:25	21-Jul-2016 15:30	21-Jul-2016 15:50	21-Jul-2016 15:45	21-Jul-2016 15:40
Compound	CAS Number	LOR	Unit		EM1608710-061	EM1608710-063	EM1608710-065	EM1608710-067	EM1608710-069
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	----	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	----	<0.05
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	----	<0.05
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP31/0-0.15	VP32/0-0.15	VP33/0-0.15	VP34/0-0.15	VP35/0-0.15
				Client sampling date / time	21-Jul-2016 15:25	21-Jul-2016 15:30	21-Jul-2016 15:50	21-Jul-2016 15:45	21-Jul-2016 15:40
Compound	CAS Number	LOR	Unit		EM1608710-061	EM1608710-063	EM1608710-065	EM1608710-067	EM1608710-069
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**81.3**	----	----	**79.0**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP31/0-0.15	VP32/0-0.15	VP33/0-0.15	VP34/0-0.15	VP35/0-0.15
				Client sampling date / time	21-Jul-2016 15:25	21-Jul-2016 15:30	21-Jul-2016 15:50	21-Jul-2016 15:45	21-Jul-2016 15:40
Compound	CAS Number	LOR	Unit		EM1608710-061	EM1608710-063	EM1608710-065	EM1608710-067	EM1608710-069
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	99.0	----	97.1	98.7
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	64.4	----	66.8	65.6
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		86.0	91.7	89.2	----	90.3
2-Chlorophenol-D4	93951-73-6	0.5	%		73.8	100	76.4	----	95.5
2.4.6-Tribromophenol	118-79-6	0.5	%		62.6	79.9	56.1	----	76.8
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		92.3	104	95.8	----	110
Anthracene-d10	1719-06-8	0.5	%		93.7	111	96.5	----	108
4-Terphenyl-d14	1718-51-0	0.5	%		83.2	114	87.5	----	111
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		79.6	79.4	80.5	----	83.4
Toluene-D8	2037-26-5	0.2	%		81.9	82.1	83.9	----	86.2
4-Bromofluorobenzene	460-00-4	0.2	%		87.1	88.7	91.6	----	94.0

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP36/0-0.15	VP37/0-0.15	VP38/0-0.15	VP39/0-0.15	VP40/0-0.15
			Client sampling date / time	22-Jul-2016 09:15	22-Jul-2016 09:20	22-Jul-2016 09:30	22-Jul-2016 09:40	22-Jul-2016 09:50
Compound	CAS Number	LOR	Unit	EM1608710-071	EM1608710-073	EM1608710-075	EM1608710-077	EM1608710-079
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	11.4	10.2	13.8	19.6	10.6
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	10	<10	20	----
Beryllium	7440-41-7	1	mg/kg	----	<1	<1	<1	----
Boron	7440-42-8	50	mg/kg	----	<50	<50	<50	----
Cobalt	7440-48-4	2	mg/kg	----	<2	<2	18	----
Manganese	7439-96-5	5	mg/kg	----	17	15	412	----
Selenium	7782-49-2	5	mg/kg	----	<5	<5	<5	----
Vanadium	7440-62-2	5	mg/kg	----	14	10	22	----
Arsenic	7440-38-2	5	mg/kg	6	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	4	4	3	12	<2
Copper	7440-50-8	5	mg/kg	<5	<5	<5	28	<5
Lead	7439-92-1	5	mg/kg	6	11	6	<5	5
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	74	2
Zinc	7440-66-6	5	mg/kg	8	12	44	66	13
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	<0.5	<0.5	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	<1	<1	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	<0.1	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	<0.05	<0.05	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP36/0-0.15	VP37/0-0.15	VP38/0-0.15	VP39/0-0.15	VP40/0-0.15
				Client sampling date / time	22-Jul-2016 09:15	22-Jul-2016 09:20	22-Jul-2016 09:30	22-Jul-2016 09:40	22-Jul-2016 09:50
Compound	CAS Number	LOR	Unit		EM1608710-071	EM1608710-073	EM1608710-075	EM1608710-077	EM1608710-079
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
4.4`-DDE	72-55-9	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Endrin	72-20-8	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
4.4`-DDD	72-54-8	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
4.4`-DDT	50-29-3	0.2	mg/kg		----	<0.2	<0.2	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	<0.2	<0.2	----
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	<0.20	<0.20	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	<0.2	<0.2	----
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	<0.2	<0.2	----
Malathion	121-75-5	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Parathion	56-38-2	0.2	mg/kg		----	<0.2	<0.2	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	<0.05	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP36/0-0.15	VP37/0-0.15	VP38/0-0.15	VP39/0-0.15	VP40/0-0.15
				Client sampling date / time	22-Jul-2016 09:15	22-Jul-2016 09:20	22-Jul-2016 09:30	22-Jul-2016 09:40	22-Jul-2016 09:50
Compound	CAS Number	LOR	Unit		EM1608710-071	EM1608710-073	EM1608710-075	EM1608710-077	EM1608710-079
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	<0.05	<0.05	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	<0.5	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	<0.5	<0.5	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	----	<1	<1	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	<0.5	<0.5	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	<0.5	<0.5	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	<0.5	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	<0.5	<0.5	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	<0.5	<0.5	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	<0.5	<0.5	----
Pentachlorophenol	87-86-5	2	mg/kg		----	----	<2	<2	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP36/0-0.15	VP37/0-0.15	VP38/0-0.15	VP39/0-0.15	VP40/0-0.15
				Client sampling date / time	22-Jul-2016 09:15	22-Jul-2016 09:20	22-Jul-2016 09:30	22-Jul-2016 09:40	22-Jul-2016 09:50
Compound	CAS Number	LOR	Unit		EM1608710-071	EM1608710-073	EM1608710-075	EM1608710-077	EM1608710-079
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	----	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	<0.2	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	----	<1	<1	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**82.6**	**98.2**	**95.0**	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP36/0-0.15	VP37/0-0.15	VP38/0-0.15	VP39/0-0.15	VP40/0-0.15
				Client sampling date / time	22-Jul-2016 09:15	22-Jul-2016 09:20	22-Jul-2016 09:30	22-Jul-2016 09:40	22-Jul-2016 09:50
Compound	CAS Number	LOR	Unit		EM1608710-071	EM1608710-073	EM1608710-075	EM1608710-077	EM1608710-079
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	105	100	96.0	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	64.2	78.4	101	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		96.2	97.4	92.0	92.5	88.5
2-Chlorophenol-D4	93951-73-6	0.5	%		82.3	98.3	94.9	93.8	75.6
2.4.6-Tribromophenol	118-79-6	0.5	%		59.5	80.0	79.8	80.5	68.7
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		102	107	109	109	95.2
Anthracene-d10	1719-06-8	0.5	%		102	109	106	112	95.1
4-Terphenyl-d14	1718-51-0	0.5	%		92.6	114	112	115	85.6
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		79.0	----	80.5	76.2	82.8
Toluene-D8	2037-26-5	0.2	%		82.1	----	86.6	78.4	86.5
4-Bromofluorobenzene	460-00-4	0.2	%		89.3	----	91.1	79.9	91.6

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP41/0-0.15	VP42/0-0.15	VP43/0-0.15	VP44/0-0.15	VP45/0-0.15
			Client sampling date / time	22-Jul-2016 10:15	22-Jul-2016 10:05	22-Jul-2016 10:00	22-Jul-2016 10:30	22-Jul-2016 10:55
Compound	CAS Number	LOR	Unit	EM1608710-081	EM1608710-083	EM1608710-085	EM1608710-087	EM1608710-089
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	12.6	13.1	8.6	19.4	28.9
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	----	30	----	----	20
Beryllium	7440-41-7	1	mg/kg	----	<1	----	----	<1
Boron	7440-42-8	50	mg/kg	----	<50	----	----	<50
Cobalt	7440-48-4	2	mg/kg	----	17	----	----	3
Manganese	7439-96-5	5	mg/kg	----	297	----	----	71
Selenium	7782-49-2	5	mg/kg	----	<5	----	----	<5
Vanadium	7440-62-2	5	mg/kg	----	20	----	----	47
Arsenic	7440-38-2	5	mg/kg	<5	5	<5	10	7
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	6	18	14	43	15
Copper	7440-50-8	5	mg/kg	8	23	13	5	<5
Lead	7439-92-1	5	mg/kg	40	<5	<5	12	12
Nickel	7440-02-0	2	mg/kg	13	73	35	16	10
Zinc	7440-66-6	5	mg/kg	113	51	16	21	32
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	----	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	<0.05	----	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	<0.05	----	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	----	<0.05	----	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	----	<0.05	----	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	----	<0.05	----	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	----	<0.05	----	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	----	<0.05	----	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	<0.05	----	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	----	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP41/0-0.15	VP42/0-0.15	VP43/0-0.15	VP44/0-0.15	VP45/0-0.15
				Client sampling date / time	22-Jul-2016 10:15	22-Jul-2016 10:05	22-Jul-2016 10:00	22-Jul-2016 10:30	22-Jul-2016 10:55
Compound	CAS Number	LOR	Unit		EM1608710-081	EM1608710-083	EM1608710-085	EM1608710-087	EM1608710-089
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		----	<0.05	----	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		----	<0.05	----	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		----	<0.05	----	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg		----	<0.05	----	----	**0.05**
4.4`-DDE	72-55-9	0.05	mg/kg		----	<0.05	----	----	<0.05
Endrin	72-20-8	0.05	mg/kg		----	<0.05	----	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		----	<0.05	----	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		----	<0.05	----	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		----	<0.05	----	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		----	<0.05	----	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		----	<0.05	----	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		----	<0.2	----	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		----	<0.05	----	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		----	<0.2	----	----	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		----	<0.05	----	----	**0.05**
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		----	<0.05	----	----	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		----	<0.05	----	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		----	<0.05	----	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		----	<0.2	----	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg		----	<0.05	----	----	<0.05
Diazinon	333-41-5	0.05	mg/kg		----	<0.05	----	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		----	<0.05	----	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		----	<0.2	----	----	<0.2
Malathion	121-75-5	0.05	mg/kg		----	<0.05	----	----	<0.05
Fenthion	55-38-9	0.05	mg/kg		----	<0.05	----	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		----	<0.05	----	----	<0.05
Parathion	56-38-2	0.2	mg/kg		----	<0.2	----	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		----	<0.05	----	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		----	<0.05	----	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		----	<0.05	----	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		----	<0.05	----	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		----	<0.05	----	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP41/0-0.15	VP42/0-0.15	VP43/0-0.15	VP44/0-0.15	VP45/0-0.15
				Client sampling date / time	22-Jul-2016 10:15	22-Jul-2016 10:05	22-Jul-2016 10:00	22-Jul-2016 10:30	22-Jul-2016 10:55
Compound	CAS Number	LOR	Unit		EM1608710-081	EM1608710-083	EM1608710-085	EM1608710-087	EM1608710-089
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		----	<0.05	----	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		----	<0.05	----	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		----	<0.05	----	----	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	----	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	----	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	<0.5	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP41/0-0.15	VP42/0-0.15	VP43/0-0.15	VP44/0-0.15	VP45/0-0.15
				Client sampling date / time	22-Jul-2016 10:15	22-Jul-2016 10:05	22-Jul-2016 10:00	22-Jul-2016 10:30	22-Jul-2016 10:55
Compound	CAS Number	LOR	Unit		EM1608710-081	EM1608710-083	EM1608710-085	EM1608710-087	EM1608710-089
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	**0.6**	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	**1.2**	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	<10	<10	----
C10 - C14 Fraction	----	50	mg/kg		<50	----	<50	<50	----
C15 - C28 Fraction	----	100	mg/kg		<100	----	<100	<100	----
C29 - C36 Fraction	----	100	mg/kg		<100	----	<100	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	<50	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	<10	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	<10	<10	----
>C10 - C16 Fraction	----	50	mg/kg		<50	----	<50	<50	----
>C16 - C34 Fraction	----	100	mg/kg		<100	----	<100	<100	----
>C34 - C40 Fraction	----	100	mg/kg		<100	----	<100	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	<50	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	<50	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	<0.2	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	<0.5	<0.5	----
Naphthalene	91-20-3	1	mg/kg		<1	----	<1	<1	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP41/0-0.15	VP42/0-0.15	VP43/0-0.15	VP44/0-0.15	VP45/0-0.15
				Client sampling date / time	22-Jul-2016 10:15	22-Jul-2016 10:05	22-Jul-2016 10:00	22-Jul-2016 10:30	22-Jul-2016 10:55
Compound	CAS Number	LOR	Unit		EM1608710-081	EM1608710-083	EM1608710-085	EM1608710-087	EM1608710-089
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	101	----	----	99.3
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	80.8	----	----	101
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		90.0	----	94.1	89.3	----
2-Chlorophenol-D4	93951-73-6	0.5	%		76.8	----	80.2	76.0	----
2.4.6-Tribromophenol	118-79-6	0.5	%		60.6	----	59.8	62.2	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		95.6	----	100.0	95.2	----
Anthracene-d10	1719-06-8	0.5	%		98.6	----	102	98.2	----
4-Terphenyl-d14	1718-51-0	0.5	%		87.9	----	90.8	87.8	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		80.4	----	76.9	82.5	----
Toluene-D8	2037-26-5	0.2	%		80.2	----	78.3	84.9	----
4-Bromofluorobenzene	460-00-4	0.2	%		83.6	----	83.6	95.4	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP46/0-0.15	VP47/0-0.15	VP48/0-0.15	VP49/0-0.15	VP50/0-0.15
			Client sampling date / time	22-Jul-2016 10:50	22-Jul-2016 10:45	22-Jul-2016 10:40	22-Jul-2016 11:20	22-Jul-2016 11:10
Compound	CAS Number	LOR	Unit	EM1608710-091	EM1608710-093	EM1608710-095	EM1608710-097	EM1608710-099
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	14.1	12.4	17.4	13.0	13.0
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	10	10	20	<10	<10
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	<2	3	<2	<2
Manganese	7439-96-5	5	mg/kg	15	13	62	8	24
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	17	10	41	10	11
Arsenic	7440-38-2	5	mg/kg	<5	<5	7	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	3	3	10	4	3
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	17	10	10	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	4	<2	<2
Zinc	7440-66-6	5	mg/kg	27	<5	6	8	9
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	<0.5	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	<1	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	<0.1	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP46/0-0.15	VP47/0-0.15	VP48/0-0.15	VP49/0-0.15	VP50/0-0.15
				Client sampling date / time	22-Jul-2016 10:50	22-Jul-2016 10:45	22-Jul-2016 10:40	22-Jul-2016 11:20	22-Jul-2016 11:10
Compound	CAS Number	LOR	Unit		EM1608710-091	EM1608710-093	EM1608710-095	EM1608710-097	EM1608710-099
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	<0.20	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP46/0-0.15	VP47/0-0.15	VP48/0-0.15	VP49/0-0.15	VP50/0-0.15
				Client sampling date / time	22-Jul-2016 10:50	22-Jul-2016 10:45	22-Jul-2016 10:40	22-Jul-2016 11:20	22-Jul-2016 11:10
Compound	CAS Number	LOR	Unit		EM1608710-091	EM1608710-093	EM1608710-095	EM1608710-097	EM1608710-099
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	<0.05	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	<0.05	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	<0.5	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	<0.5	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	<1	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	<0.5	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	<0.5	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	<0.5	----
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	<2	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP46/0-0.15	VP47/0-0.15	VP48/0-0.15	VP49/0-0.15	VP50/0-0.15
				Client sampling date / time	22-Jul-2016 10:50	22-Jul-2016 10:45	22-Jul-2016 10:40	22-Jul-2016 11:20	22-Jul-2016 11:10
Compound	CAS Number	LOR	Unit		EM1608710-091	EM1608710-093	EM1608710-095	EM1608710-097	EM1608710-099
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	<10	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	<50	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	<100	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg		----	<50	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg		----	<100	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	<50	----	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	<50	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	<1	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**98.7**	----	**102**	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP46/0-0.15	VP47/0-0.15	VP48/0-0.15	VP49/0-0.15	VP50/0-0.15
				Client sampling date / time	22-Jul-2016 10:50	22-Jul-2016 10:45	22-Jul-2016 10:40	22-Jul-2016 11:20	22-Jul-2016 11:10
Compound	CAS Number	LOR	Unit		EM1608710-091	EM1608710-093	EM1608710-095	EM1608710-097	EM1608710-099
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		109	103	101	103	100
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		75.3	78.1	83.1	80.2	82.9
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	89.6	----	95.2	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	96.0	----	96.8	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	75.8	----	81.3	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	107	----	111	----
Anthracene-d10	1719-06-8	0.5	%		----	108	----	110	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	114	----	115	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	75.4	----	79.3	----
Toluene-D8	2037-26-5	0.2	%		----	77.5	----	85.0	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	79.0	----	87.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP51/0-0.15	VP52/0-0.15	VP53/0-0.15	VP54/0-0.15	VP55/0-0.15
			Client sampling date / time	22-Jul-2016 11:00	22-Jul-2016 11:50	22-Jul-2016 11:40	22-Jul-2016 11:35	22-Jul-2016 11:30
Compound	CAS Number	LOR	Unit	EM1608710-101	EM1608710-103	EM1608710-105	EM1608710-107	EM1608710-109
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	**14.0**	**11.1**	**14.3**	**10.6**	**8.2**
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	<10	<10	**10**	<10	<10
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	<2	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	**206**	**8**	**7**	**13**	<5
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	**14**	**18**	**21**	**9**	**5**
Arsenic	7440-38-2	5	mg/kg	<5	<5	**6**	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	**4**	**4**	**6**	**2**	<2
Copper	7440-50-8	5	mg/kg	<5	<5	**7**	<5	<5
Lead	7439-92-1	5	mg/kg	<5	**5**	**6**	**6**	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	**2**	<2	<2
Zinc	7440-66-6	5	mg/kg	**7**	**6**	**8**	**6**	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	----	**1**	----	<1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	<0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	----	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP51/0-0.15	VP52/0-0.15	VP53/0-0.15	VP54/0-0.15	VP55/0-0.15
				Client sampling date / time	22-Jul-2016 11:00	22-Jul-2016 11:50	22-Jul-2016 11:40	22-Jul-2016 11:35	22-Jul-2016 11:30
Compound	CAS Number	LOR	Unit		EM1608710-101	EM1608710-103	EM1608710-105	EM1608710-107	EM1608710-109
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		<0.20	----	<0.20	----	<0.20
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP51/0-0.15	VP52/0-0.15	VP53/0-0.15	VP54/0-0.15	VP55/0-0.15
			Client sampling date / time	22-Jul-2016 11:00	22-Jul-2016 11:50	22-Jul-2016 11:40	22-Jul-2016 11:35	22-Jul-2016 11:30
Compound	CAS Number	LOR	Unit	EM1608710-101	EM1608710-103	EM1608710-105	EM1608710-107	EM1608710-109
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines								
Atrazine	1912-24-9	0.05	mg/kg	<0.05	----	<0.05	----	<0.05
EP068D: Pyrethroids								
Bifenthrin	82657-04-3	0.05	mg/kg	<0.05	----	<0.05	----	<0.05
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	<1	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	<2	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	<0.5	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP51/0-0.15	VP52/0-0.15	VP53/0-0.15	VP54/0-0.15	VP55/0-0.15
				Client sampling date / time	22-Jul-2016 11:00	22-Jul-2016 11:50	22-Jul-2016 11:40	22-Jul-2016 11:35	22-Jul-2016 11:30
Compound	CAS Number	LOR	Unit		EM1608710-101	EM1608710-103	EM1608710-105	EM1608710-107	EM1608710-109
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	**0.6**	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	**1.2**	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	----	**130**	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	**130**	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	<0.2	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	----	<1	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**99.4**	----	**99.7**	----	**99.8**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP51/0-0.15	VP52/0-0.15	VP53/0-0.15	VP54/0-0.15	VP55/0-0.15
				Client sampling date / time	22-Jul-2016 11:00	22-Jul-2016 11:50	22-Jul-2016 11:40	22-Jul-2016 11:35	22-Jul-2016 11:30
Compound	CAS Number	LOR	Unit		EM1608710-101	EM1608710-103	EM1608710-105	EM1608710-107	EM1608710-109
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		93.3	102	102	101	102
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		82.9	99.7	103	96.2	102
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		85.7	----	87.4	----	97.0
2-Chlorophenol-D4	93951-73-6	0.5	%		95.0	----	97.4	----	102
2.4.6-Tribromophenol	118-79-6	0.5	%		78.6	----	82.8	----	93.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		105	----	109	----	101
Anthracene-d10	1719-06-8	0.5	%		107	----	109	----	120
4-Terphenyl-d14	1718-51-0	0.5	%		111	----	112	----	110
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		81.6	----	84.0	----	83.2
Toluene-D8	2037-26-5	0.2	%		85.9	----	82.8	----	85.1
4-Bromofluorobenzene	460-00-4	0.2	%		91.2	----	88.7	----	89.9

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP56/0-0.15	VP57/0-0.15	VP58/0-0.15	VP59/0-0.15	VP60/0-0.15
			Client sampling date / time	22-Jul-2016 11:50	22-Jul-2016 12:45	22-Jul-2016 12:40	22-Jul-2016 12:35	22-Jul-2016 12:25
Compound	CAS Number	LOR	Unit	EM1608710-111	EM1608710-113	EM1608710-115	EM1608710-117	EM1608710-119
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	**11.5**	**11.9**	**11.7**	**17.2**	**12.9**
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	<10	<10	<10	<10	<10
Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg	<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg	<2	<2	<2	<2	<2
Manganese	7439-96-5	5	mg/kg	**9**	**9**	**12**	<5	**18**
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Vanadium	7440-62-2	5	mg/kg	<5	<5	**11**	**7**	**22**
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	**11**
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	<2	<2	**3**	**3**	**5**
Copper	7440-50-8	5	mg/kg	<5	<5	<5	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	**5**
Nickel	7440-02-0	2	mg/kg	<2	<2	<2	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	<5	<5	<5	**5**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	----	<0.5	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	----	<1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP56/0-0.15	VP57/0-0.15	VP58/0-0.15	VP59/0-0.15	VP60/0-0.15
				Client sampling date / time	22-Jul-2016 11:50	22-Jul-2016 12:45	22-Jul-2016 12:40	22-Jul-2016 12:35	22-Jul-2016 12:25
Compound	CAS Number	LOR	Unit		EM1608710-111	EM1608710-113	EM1608710-115	EM1608710-117	EM1608710-119
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Mirex	2385-85-5	0.2	mg/kg		----	<0.20	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP56/0-0.15	VP57/0-0.15	VP58/0-0.15	VP59/0-0.15	VP60/0-0.15
				Client sampling date / time	22-Jul-2016 11:50	22-Jul-2016 12:45	22-Jul-2016 12:40	22-Jul-2016 12:35	22-Jul-2016 12:25
Compound	CAS Number	LOR	Unit		EM1608710-111	EM1608710-113	EM1608710-115	EM1608710-117	EM1608710-119
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		----	<0.05	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		----	<0.05	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		----	<0.5	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		----	<0.5	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		----	<0.5	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		----	<1	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		----	<0.5	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		----	<0.5	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		----	<0.5	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		----	<0.5	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		----	<0.5	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		----	<0.5	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		----	<2	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP56/0-0.15	VP57/0-0.15	VP58/0-0.15	VP59/0-0.15	VP60/0-0.15
				Client sampling date / time	22-Jul-2016 11:50	22-Jul-2016 12:45	22-Jul-2016 12:40	22-Jul-2016 12:35	22-Jul-2016 12:25
Compound	CAS Number	LOR	Unit		EM1608710-111	EM1608710-113	EM1608710-115	EM1608710-117	EM1608710-119
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		----	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		----	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		----	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		----	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		----	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		----	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		----	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		----	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		----	**130**	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		----	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		----	**130**	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		----	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		----	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		----	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		----	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		----	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		----	<0.2	----	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg		----	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		----	<1	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	**101**	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP56/0-0.15	VP57/0-0.15	VP58/0-0.15	VP59/0-0.15	VP60/0-0.15
				Client sampling date / time	22-Jul-2016 11:50	22-Jul-2016 12:45	22-Jul-2016 12:40	22-Jul-2016 12:35	22-Jul-2016 12:25
Compound	CAS Number	LOR	Unit		EM1608710-111	EM1608710-113	EM1608710-115	EM1608710-117	EM1608710-119
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		96.2	88.1	94.9	97.7	106
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		108	91.9	99.6	74.1	102
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		----	74.2	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		----	76.5	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		----	44.2	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		----	99.2	----	----	----
Anthracene-d10	1719-06-8	0.5	%		----	115	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		----	90.5	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		----	79.9	----	----	----
Toluene-D8	2037-26-5	0.2	%		----	82.2	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		----	91.7	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	VP61/0-0.15	VP62/0-0.15	QC02	QC04	QC13
			Client sampling date / time	22-Jul-2016 12:20	22-Jul-2016 12:15	[21-Jul-2016]	[21-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit	EM1608710-121	EM1608710-123	EM1608710-126	EM1608710-127	EM1608710-134
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	8.2	11.7	14.7	12.4	10.0
EG005T: Total Metals by ICP-AES								
Barium	7440-39-3	10	mg/kg	<10	<10	----	<10	----
Beryllium	7440-41-7	1	mg/kg	<1	<1	----	<1	----
Boron	7440-42-8	50	mg/kg	<50	<50	----	<50	----
Cobalt	7440-48-4	2	mg/kg	<2	<2	----	<2	----
Manganese	7439-96-5	5	mg/kg	9	7	----	21	----
Selenium	7782-49-2	5	mg/kg	<5	<5	----	<5	----
Vanadium	7440-62-2	5	mg/kg	18	17	----	14	----
Arsenic	7440-38-2	5	mg/kg	6	5	6	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	5	5	11	3	<2
Copper	7440-50-8	5	mg/kg	<5	<5	9	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	120	<5	8
Nickel	7440-02-0	2	mg/kg	<2	<2	3	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	<5	145	8	24
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.3	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	----	----	----
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser								
Weak Acid Dissociable Cyanide	----	1	mg/kg	<1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	<0.05	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	<0.05	----	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP61/0-0.15	VP62/0-0.15	QC02	QC04	QC13
				Client sampling date / time	22-Jul-2016 12:20	22-Jul-2016 12:15	[21-Jul-2016]	[21-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-121	EM1608710-123	EM1608710-126	EM1608710-127	EM1608710-134
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	**0.12**	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Mirex	2385-85-5	0.2	mg/kg		<0.20	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	**0.12**	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Malathion	121-75-5	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Parathion	56-38-2	0.2	mg/kg		<0.2	<0.2	----	<0.2	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	<0.05	----	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP61/0-0.15	VP62/0-0.15	QC02	QC04	QC13
				Client sampling date / time	22-Jul-2016 12:20	22-Jul-2016 12:15	[21-Jul-2016]	[21-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-121	EM1608710-123	EM1608710-126	EM1608710-127	EM1608710-134
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	<0.05	----	<0.05	----
EP068C: Triazines									
Atrazine	1912-24-9	0.05	mg/kg		<0.05	----	----	----	----
EP068D: Pyrethroids									
Bifenthrin	82657-04-3	0.05	mg/kg		<0.05	----	----	----	----
EP075(SIM)A: Phenolic Compounds									
Phenol	108-95-2	0.5	mg/kg		<0.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		<1	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg		<0.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg		<0.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg		<2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	<0.5	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP61/0-0.15	VP62/0-0.15	QC02	QC04	QC13
				Client sampling date / time	22-Jul-2016 12:20	22-Jul-2016 12:15	[21-Jul-2016]	[21-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-121	EM1608710-123	EM1608710-126	EM1608710-127	EM1608710-134
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	----	**0.6**	----	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	----	**1.2**	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	----	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	----	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	----	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	<10	----	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	----	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	----	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	----	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	<50	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	<0.2	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	----	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	----	<1	----	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**109**	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	VP61/0-0.15	VP62/0-0.15	QC02	QC04	QC13
				Client sampling date / time	22-Jul-2016 12:20	22-Jul-2016 12:15	[21-Jul-2016]	[21-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-121	EM1608710-123	EM1608710-126	EM1608710-127	EM1608710-134
					Result	Result	Result	Result	Result
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		107	98.1	----	94.1	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		112	100	----	98.1	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		84.2	----	91.0	----	90.4
2-Chlorophenol-D4	93951-73-6	0.5	%		81.9	----	77.0	----	76.6
2.4.6-Tribromophenol	118-79-6	0.5	%		48.6	----	59.2	----	65.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		110	----	97.6	----	96.1
Anthracene-d10	1719-06-8	0.5	%		113	----	100	----	102
4-Terphenyl-d14	1718-51-0	0.5	%		83.3	----	89.3	----	88.2
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		82.8	----	81.2	----	78.4
Toluene-D8	2037-26-5	0.2	%		83.5	----	85.1	----	77.1
4-Bromofluorobenzene	460-00-4	0.2	%		88.8	----	88.5	----	79.9

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	QC01	QC06	QC07	QC08	QC09
			Client sampling date / time	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]
Compound	CAS Number	LOR	Unit	EM1608710-125	EM1608710-128	EM1608710-129	EM1608710-130	EM1608710-131
				Result	Result	Result	Result	Result
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	----	----	----	----
Barium	7440-39-3	0.001	mg/L	<0.001	----	----	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Manganese	7439-96-5	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Selenium	7782-49-2	0.01	mg/L	<0.01	----	----	----	----
Vanadium	7440-62-2	0.01	mg/L	<0.01	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L	<0.5	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L	<0.5	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L	<0.5	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L	<0.5	----	----	----	----
Aldrin	309-00-2	0.5	µg/L	<0.5	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	----	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L	<0.5	----	----	----	----
Endrin	72-20-8	0.5	µg/L	<0.5	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	----	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L	<0.5	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC01	QC06	QC07	QC08	QC09
				Client sampling date / time	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-125	EM1608710-128	EM1608710-129	EM1608710-130	EM1608710-131
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDT	50-29-3	2	µg/L		<2.0	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	----	----	----	----
Methoxychlor	72-43-5	2	µg/L		<2.0	----	----	----	----
^ Total Chlordane (sum)	----	0.5	µg/L		<0.5	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L		<0.5	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	----	----	----	----
Monocrotophos	6923-22-4	2	µg/L		<2.0	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	----	----	----	----
Parathion-methyl	298-00-0	2	µg/L		<2.0	----	----	----	----
Malathion	121-75-5	0.5	µg/L		<0.5	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	----	----	----	----
Parathion	56-38-2	2	µg/L		<2.0	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	----	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	----	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	----	----	----	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	----	----	----	----
Ethion	563-12-2	0.5	µg/L		<0.5	----	----	----	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	----	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L		<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L		<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC01	QC06	QC07	QC08	QC09
				Client sampling date / time	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]	[21-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-125	EM1608710-128	EM1608710-129	EM1608710-130	EM1608710-131
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ **Total Xylenes**	1330-20-7	2	µg/L		<2	<2	<2	<2	<2
^ **Sum of BTEX**	----	1	µg/L		<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**67.5**	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**85.3**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**107**	**103**	**103**	**106**	**104**
Toluene-D8	2037-26-5	2	%		**109**	**105**	**102**	**102**	**102**
4-Bromofluorobenzene	460-00-4	2	%		**118**	**115**	**113**	**114**	**112**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC11	QC12	QC15	QC18	QC16
				Client sampling date / time	[21-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-132	EM1608710-133	EM1608710-135	EM1608710-138	EM1608710-139
					Result	Result	Result	Result	Result
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	----	<0.001	----
Boron	7440-42-8	0.05	mg/L		<0.05	<0.05	----	<0.05	----
Barium	7440-39-3	0.001	mg/L		<0.001	**0.022**	----	**0.019**	----
Beryllium	7440-41-7	0.001	mg/L		<0.001	<0.001	----	<0.001	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	----	<0.0001	----
Cobalt	7440-48-4	0.001	mg/L		<0.001	<0.001	----	<0.001	----
Chromium	7440-47-3	0.001	mg/L		<0.001	<0.001	----	<0.001	----
Copper	7440-50-8	0.001	mg/L		<0.001	**0.002**	----	**0.001**	----
Manganese	7439-96-5	0.001	mg/L		<0.001	**0.008**	----	**0.010**	----
Nickel	7440-02-0	0.001	mg/L		<0.001	**0.003**	----	**0.003**	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	----	<0.001	----
Selenium	7782-49-2	0.01	mg/L		<0.01	<0.01	----	<0.01	----
Vanadium	7440-62-2	0.01	mg/L		<0.01	<0.01	----	<0.01	----
Zinc	7440-66-6	0.005	mg/L		<0.005	**0.005**	----	<0.005	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	----	<0.0001	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	<0.5	----	<0.5	----
beta-BHC	319-85-7	0.5	µg/L		<0.5	<0.5	----	<0.5	----
gamma-BHC	58-89-9	0.5	µg/L		<0.5	<0.5	----	<0.5	----
delta-BHC	319-86-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Heptachlor	76-44-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Aldrin	309-00-2	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	<0.5	----	<0.5	----
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	<0.5	----	<0.5	----
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Dieldrin	60-57-1	0.5	µg/L		<0.5	<0.5	----	<0.5	----
4.4`-DDE	72-55-9	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Endrin	72-20-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	<0.5	----	<0.5	----
4.4`-DDD	72-54-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	<0.5	----	<0.5	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC11	QC12	QC15	QC18	QC16
				Client sampling date / time	[21-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-132	EM1608710-133	EM1608710-135	EM1608710-138	EM1608710-139
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
4.4`-DDT	50-29-3	2	µg/L		<2.0	<2.0	----	<2.0	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Methoxychlor	72-43-5	2	µg/L		<2.0	<2.0	----	<2.0	----
^ Total Chlordane (sum)	----	0.5	µg/L		<0.5	<0.5	----	<0.5	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	<0.5	----	<0.5	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L		<0.5	<0.5	----	<0.5	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Monocrotophos	6923-22-4	2	µg/L		<2.0	<2.0	----	<2.0	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Diazinon	333-41-5	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Parathion-methyl	298-00-0	2	µg/L		<2.0	<2.0	----	<2.0	----
Malathion	121-75-5	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Fenthion	55-38-9	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Parathion	56-38-2	2	µg/L		<2.0	<2.0	----	<2.0	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Ethion	563-12-2	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	<0.5	----	<0.5	----
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	<0.5	----	<0.5	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	µg/L		<50	<50	----	<50	----
C15 - C28 Fraction	----	100	µg/L		<100	<100	----	<100	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	----	<50	----
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	<50	----	<50	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC11	QC12	QC15	QC18	QC16
				Client sampling date / time	[21-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]	[22-Jul-2016]
Compound	CAS Number	LOR	Unit		EM1608710-132	EM1608710-133	EM1608710-135	EM1608710-138	EM1608710-139
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<20	<20	<20
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
>C10 - C16 Fraction	----	100	µg/L		<100	<100	----	<100	----
>C16 - C34 Fraction	----	100	µg/L		<100	<100	----	<100	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	<100	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	----	<100	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	<100	----	<100	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	<2	<2	<2
^ **Total Xylenes**	1330-20-7	2	µg/L		<2	<2	<2	<2	<2
^ **Sum of BTEX**	----	1	µg/L		<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**65.1**	**62.6**	----	**62.9**	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**83.6**	**75.5**	----	**71.7**	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**105**	**103**	**107**	**108**	**97.8**
Toluene-D8	2037-26-5	2	%		**102**	**104**	**107**	**106**	**97.2**
4-Bromofluorobenzene	460-00-4	2	%		**114**	**115**	**118**	**116**	**114**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC17	----	----	----	----
				Client sampling date / time	[22-Jul-2016]	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1608710-140	--------	--------	--------	--------
					Result	----	----	----	----
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		----	----	----	----	----
Boron	7440-42-8	0.05	mg/L		----	----	----	----	----
Barium	7440-39-3	0.001	mg/L		----	----	----	----	----
Beryllium	7440-41-7	0.001	mg/L		----	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L		----	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L		----	----	----	----	----
Chromium	7440-47-3	0.001	mg/L		----	----	----	----	----
Copper	7440-50-8	0.001	mg/L		----	----	----	----	----
Manganese	7439-96-5	0.001	mg/L		----	----	----	----	----
Nickel	7440-02-0	0.001	mg/L		----	----	----	----	----
Lead	7439-92-1	0.001	mg/L		----	----	----	----	----
Selenium	7782-49-2	0.01	mg/L		----	----	----	----	----
Vanadium	7440-62-2	0.01	mg/L		----	----	----	----	----
Zinc	7440-66-6	0.005	mg/L		----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		----	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L		----	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		----	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L		----	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L		----	----	----	----	----
Aldrin	309-00-2	0.5	µg/L		----	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		----	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		----	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		----	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		----	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L		----	----	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L		----	----	----	----	----
Endrin	72-20-8	0.5	µg/L		----	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		----	----	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L		----	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		----	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC17	----	----	----	----
				Client sampling date / time	[22-Jul-2016]	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1608710-140	--------	--------	--------	--------
					Result	----	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Endosulfan sulfate	1031-07-8	0.5	µg/L		----	----	----	----	----
4.4`-DDT	50-29-3	2	µg/L		----	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		----	----	----	----	----
Methoxychlor	72-43-5	2	µg/L		----	----	----	----	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		----	----	----	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		----	----	----	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		----	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		----	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		----	----	----	----	----
Monocrotophos	6923-22-4	2	µg/L		----	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		----	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		----	----	----	----	----
Parathion-methyl	298-00-0	2	µg/L		----	----	----	----	----
Malathion	121-75-5	0.5	µg/L		----	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		----	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L		----	----	----	----	----
Parathion	56-38-2	2	µg/L		----	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		----	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L		----	----	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		----	----	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L		----	----	----	----	----
Prothiofos	34643-46-4	0.5	µg/L		----	----	----	----	----
Ethion	563-12-2	0.5	µg/L		----	----	----	----	----
Carbophenothion	786-19-6	0.5	µg/L		----	----	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L		----	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L		----	----	----	----	----
C15 - C28 Fraction	----	100	µg/L		----	----	----	----	----
C29 - C36 Fraction	----	50	µg/L		----	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		----	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	QC17	----	----	----	----
				Client sampling date / time	[22-Jul-2016]	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1608710-140	--------	--------	--------	--------
					Result	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L		----	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L		----	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L		----	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		----	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		----	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	----	----	----	----
Toluene	108-88-3	2	µg/L		<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	----	----	----	----
^ **Total Xylenes**	1330-20-7	2	µg/L		<2	----	----	----	----
^ **Sum of BTEX**	----	1	µg/L		<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		----	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		----	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**101**	----	----	----	----
Toluene-D8	2037-26-5	2	%		**98.0**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**116**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	36	140
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	38	128
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	33	139
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2.4.6-Tribromophenol	118-79-6	34	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	117
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	51	127
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	129
Toluene-D8	2037-26-5	70	125
4-Bromofluorobenzene	460-00-4	71	129

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM1608710**	Page	: 1 of 19
Client	: **ENVIRONMENTAL SITE ASSESSMENTS PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR SETON LILLAS	Telephone	: +61-3-8549 9608
Project	: Mollers Lane, Leopold	Date Samples Received	: 22-Jul-2016
Site	: ----	Issue Date	: 29-Jul-2016
Sampler	: ----	No. of samples received	: 138
Order number	: ----	No. of samples analysed	: 76

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

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Pesticides by GCMS	0	5	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
Pesticides by GCMS	0	5	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	9	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

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: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EA055: Moisture Content							
Soil Glass Jar - Unpreserved (EA055-103)							
VP01/0-0.15, VP02/0-0.15,	**21-Jul-2016**	**----**	----	----	**26-Jul-2016**	04-Aug-2016	✓
VP03/0-0.15, VP04/0-0.15,							
VP05/0-0.15, VP06/0-0.15,							
VP07/0-0.15, VP08/0-0.15,							
VP09/0-0.15, VP10/0-0.15,							
VP11/0-0.15, VP12/0-0.15,							
VP13/0-0.15, VP14/0-0.15,							
VP15/0-0.15, VP16/0-0.15,							
VP17/0-0.15, VP18/0-0.15,							
VP19/0-0.15, QC02,							
VP20/0-0.15,							
VP21/0-0.15, VP22/0-0.15,							
VP23/0-0.15, VP24/0-0.15,							
VP25/0-0.15, VP26/0-0.15,							
VP27/0-0.15, VP28/0-0.15,							
VP29/0-0.15, VP30/0-0.15,							
VP31/0-0.15, VP32/0-0.15,							
VP33/0-0.15, VP34/0-0.15,							
VP35/0-0.15, QC04							
Soil Glass Jar - Unpreserved (EA055-103)							

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 - Continued								
VP36/0-0.15,	VP37/0-0.15,	**22-Jul-2016**	**----**	----	----	**26-Jul-2016**	05-Aug-2016	✓
VP38/0-0.15,	VP39/0-0.15,							
VP40/0-0.15,	VP41/0-0.15,							
VP42/0-0.15,	VP43/0-0.15,							
VP44/0-0.15,	VP45/0-0.15,							
VP46/0-0.15,	VP47/0-0.15,							
VP48/0-0.15,	VP49/0-0.15,							
VP50/0-0.15,	VP51/0-0.15,							
VP52/0-0.15,	VP53/0-0.15,							
VP54/0-0.15,	QC13,							
VP55/0-0.15,								
VP56/0-0.15,	VP57/0-0.15,							
VP58/0-0.15,	VP59/0-0.15,							
VP60/0-0.15,	VP61/0-0.15,							
VP62/0-0.15								

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
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP05/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP09/0-0.15, VP10/0-0.15, VP11/0-0.15, VP12/0-0.15, VP13/0-0.15, VP14/0-0.15, VP15/0-0.15, VP16/0-0.15, VP17/0-0.15, VP18/0-0.15, VP19/0-0.15, VP20/0-0.15, VP21/0-0.15, VP22/0-0.15, VP23/0-0.15, VP24/0-0.15, VP25/0-0.15, VP26/0-0.15, VP27/0-0.15, VP28/0-0.15, VP29/0-0.15, VP30/0-0.15, VP31/0-0.15, VP32/0-0.15, VP33/0-0.15, VP34/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	17-Jan-2017	✓	**27-Jul-2016**	17-Jan-2017	✓
Soil Glass Jar - Unpreserved (EG005T)							
QC02, QC04	**21-Jul-2016**	**27-Jul-2016**	17-Jan-2017	✓	**28-Jul-2016**	17-Jan-2017	✓
Soil Glass Jar - Unpreserved (EG005T)							
VP36/0-0.15, VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP40/0-0.15	**22-Jul-2016**	**27-Jul-2016**	18-Jan-2017	✓	**27-Jul-2016**	18-Jan-2017	✓
Soil Glass Jar - Unpreserved (EG005T)							
VP41/0-0.15, VP42/0-0.15, VP43/0-0.15, VP44/0-0.15, VP45/0-0.15, VP46/0-0.15, VP47/0-0.15, VP48/0-0.15, VP49/0-0.15, VP50/0-0.15, VP51/0-0.15, VP52/0-0.15, VP53/0-0.15, VP54/0-0.15, VP55/0-0.15, VP56/0-0.15, VP57/0-0.15, VP58/0-0.15, VP59/0-0.15, QC13, VP60/0-0.15, VP61/0-0.15, VP62/0-0.15	**22-Jul-2016**	**27-Jul-2016**	18-Jan-2017	✓	**28-Jul-2016**	18-Jan-2017	✓

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
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP05/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP09/0-0.15, VP10/0-0.15, VP11/0-0.15, VP12/0-0.15, VP13/0-0.15, VP14/0-0.15, VP15/0-0.15, VP16/0-0.15, VP17/0-0.15, VP18/0-0.15, VP19/0-0.15, QC02, VP20/0-0.15, VP21/0-0.15, VP22/0-0.15, VP23/0-0.15, VP24/0-0.15, VP25/0-0.15, VP26/0-0.15, VP27/0-0.15, VP28/0-0.15, VP29/0-0.15, VP30/0-0.15, VP31/0-0.15, VP32/0-0.15, VP33/0-0.15, VP34/0-0.15, VP35/0-0.15, QC04	**21-Jul-2016**	**27-Jul-2016**	18-Aug-2016	✓	**28-Jul-2016**	18-Aug-2016	✓
Soil Glass Jar - Unpreserved (EG035T)							
VP36/0-0.15, VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP40/0-0.15, VP41/0-0.15, VP42/0-0.15, VP43/0-0.15, VP44/0-0.15, VP45/0-0.15, VP46/0-0.15, VP47/0-0.15, VP48/0-0.15, VP49/0-0.15, VP50/0-0.15, VP51/0-0.15, VP52/0-0.15, VP53/0-0.15, VP54/0-0.15, QC13, VP55/0-0.15, VP56/0-0.15, VP57/0-0.15, VP58/0-0.15, VP59/0-0.15, VP60/0-0.15, VP61/0-0.15, VP62/0-0.15	**22-Jul-2016**	**27-Jul-2016**	19-Aug-2016	✓	**28-Jul-2016**	19-Aug-2016	✓

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
EG048: Hexavalent Chromium (Alkaline Digest)							
Soil Glass Jar - Unpreserved (EG048G)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	18-Aug-2016	✓	**27-Jul-2016**	03-Aug-2016	✓
Soil Glass Jar - Unpreserved (EG048G)							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15, VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	19-Aug-2016	✓	**27-Jul-2016**	03-Aug-2016	✓
EK028SF: Weak Acid Dissociable CN by Segmented Flow Analyser							
Soil Glass Jar - Unpreserved (EK028SF)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	10-Aug-2016	✓
Soil Glass Jar - Unpreserved (EK028SF)							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15, VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	10-Aug-2016	✓

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
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP066)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP066)							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP066)							
VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
VP04/0-0.15, VP05/0-0.15, VP09/0-0.15, VP10/0-0.15, VP11/0-0.15, VP13/0-0.15, VP14/0-0.15, VP15/0-0.15, VP16/0-0.15, VP17/0-0.15, VP18/0-0.15, VP19/0-0.15, VP20/0-0.15, VP21/0-0.15, VP22/0-0.15, VP23/0-0.15, VP24/0-0.15, VP25/0-0.15, VP26/0-0.15, VP27/0-0.15, VP28/0-0.15, VP29/0-0.15, VP32/0-0.15, VP34/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, QC04	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP42/0-0.15, VP45/0-0.15, VP46/0-0.15, VP47/0-0.15, VP48/0-0.15, VP49/0-0.15, VP50/0-0.15, VP51/0-0.15, VP52/0-0.15, VP53/0-0.15, VP54/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP56/0-0.15, VP57/0-0.15, VP58/0-0.15, VP59/0-0.15, VP60/0-0.15, VP61/0-0.15, VP62/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068)							
VP04/0-0.15, VP05/0-0.15, VP09/0-0.15, VP10/0-0.15, VP11/0-0.15, VP13/0-0.15, VP14/0-0.15, VP15/0-0.15, VP16/0-0.15, VP17/0-0.15, VP18/0-0.15, VP19/0-0.15, VP20/0-0.15, VP21/0-0.15, VP22/0-0.15, VP23/0-0.15, VP24/0-0.15, VP25/0-0.15, VP26/0-0.15, VP27/0-0.15, VP28/0-0.15, VP29/0-0.15, VP32/0-0.15, VP34/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, QC04	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP42/0-0.15, VP45/0-0.15, VP46/0-0.15, VP47/0-0.15, VP48/0-0.15, VP49/0-0.15, VP50/0-0.15, VP51/0-0.15, VP52/0-0.15, VP53/0-0.15, VP54/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP56/0-0.15, VP57/0-0.15, VP58/0-0.15, VP59/0-0.15, VP60/0-0.15, VP61/0-0.15, VP62/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP068C: Triazines							
Soil Glass Jar - Unpreserved (EP068)							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
EP068D: Pyrethroids							
Soil Glass Jar - Unpreserved (EP068)							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP37/0-0.15, VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP068)							
VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP075(SIM)A: Phenolic Compounds							
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP57/0-0.15, VP61/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP30/0-0.15, VP31/0-0.15, VP33/0-0.15, QC02	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP075(SIM))							
VP36/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP30/0-0.15, VP31/0-0.15, VP32/0-0.15, VP33/0-0.15, VP35/0-0.15, QC02	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	04-Aug-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP30/0-0.15, VP31/0-0.15, VP33/0-0.15, QC02	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP080)							
VP36/0-0.15, VP38/0-0.15, VP39/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Aug-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP36/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP30/0-0.15, VP31/0-0.15, VP32/0-0.15, VP33/0-0.15, VP35/0-0.15, QC02	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	04-Aug-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP04/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP32/0-0.15, VP35/0-0.15	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP30/0-0.15, VP31/0-0.15, VP33/0-0.15, QC02	**21-Jul-2016**	**27-Jul-2016**	04-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP080)							
VP36/0-0.15, VP38/0-0.15, VP39/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Aug-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP38/0-0.15, VP39/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Soil Glass Jar - Unpreserved (EP071)							
VP36/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**27-Jul-2016**	05-Aug-2016	✓	**28-Jul-2016**	05-Sep-2016	✓

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
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
VP01/0-0.15, VP02/0-0.15, VP03/0-0.15, VP04/0-0.15, VP06/0-0.15, VP07/0-0.15, VP08/0-0.15, VP12/0-0.15, VP16/0-0.15, VP20/0-0.15, VP22/0-0.15, VP24/0-0.15, VP26/0-0.15, VP30/0-0.15, VP31/0-0.15, VP32/0-0.15, VP33/0-0.15, VP35/0-0.15, QC02	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**27-Jul-2016**	04-Aug-2016	✓
Soil Glass Jar - Unpreserved (EP080)							
VP36/0-0.15, VP38/0-0.15, VP39/0-0.15, VP40/0-0.15, VP41/0-0.15, VP43/0-0.15, VP44/0-0.15, VP47/0-0.15, VP49/0-0.15, VP51/0-0.15, VP53/0-0.15, VP55/0-0.15, VP57/0-0.15, VP61/0-0.15, QC13	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**27-Jul-2016**	05-Aug-2016	✓

Matrix: **WATER**

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
EG020T: Total Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
QC01, QC11	**21-Jul-2016**	**27-Jul-2016**	17-Jan-2017	✓	**27-Jul-2016**	17-Jan-2017	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG020A-T)							
QC12, QC18	**22-Jul-2016**	**27-Jul-2016**	18-Jan-2017	✓	**27-Jul-2016**	18-Jan-2017	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
QC01, QC11	**21-Jul-2016**	**----**	----	----	**27-Jul-2016**	18-Aug-2016	✓
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG035T)							
QC12, QC18	**22-Jul-2016**	**----**	----	----	**27-Jul-2016**	19-Aug-2016	✓
EP068A: Organochlorine Pesticides (OC)							
Amber Glass Bottle - Unpreserved (EP068)							
QC01, QC11	**21-Jul-2016**	**27-Jul-2016**	28-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber Glass Bottle - Unpreserved (EP068)							
QC12, QC18	**22-Jul-2016**	**27-Jul-2016**	29-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓

Matrix: **WATER**

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
EP068B: Organophosphorus Pesticides (OP)							
Amber Glass Bottle - Unpreserved (EP068)							
QC01, QC11	**21-Jul-2016**	**27-Jul-2016**	28-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber Glass Bottle - Unpreserved (EP068)							
QC12, QC18	**22-Jul-2016**	**27-Jul-2016**	29-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
QC01, QC11	**21-Jul-2016**	**27-Jul-2016**	28-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber Glass Bottle - Unpreserved (EP071)							
QC12, QC18	**22-Jul-2016**	**27-Jul-2016**	29-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
QC01, QC06, QC07, QC08, QC09, QC11	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**26-Jul-2016**	04-Aug-2016	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
QC12, QC15, QC18, QC16, QC17	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**26-Jul-2016**	05-Aug-2016	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
QC01, QC11	**21-Jul-2016**	**27-Jul-2016**	28-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber Glass Bottle - Unpreserved (EP071)							
QC12, QC18	**22-Jul-2016**	**27-Jul-2016**	29-Jul-2016	✓	**27-Jul-2016**	05-Sep-2016	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
QC01, QC06, QC07, QC08, QC09, QC11	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**26-Jul-2016**	04-Aug-2016	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
QC12, QC15, QC18, QC16, QC17	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**26-Jul-2016**	05-Aug-2016	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
QC01, QC06, QC07, QC08, QC09, QC11	**21-Jul-2016**	**26-Jul-2016**	04-Aug-2016	✓	**26-Jul-2016**	04-Aug-2016	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
QC12, QC15, QC18, QC16, QC17	**22-Jul-2016**	**26-Jul-2016**	05-Aug-2016	✓	**26-Jul-2016**	05-Aug-2016	✓

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)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	38	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055-103	7	65	**10.77**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	5	43	**11.63**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	6	54	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	23	**13.04**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	8	79	**10.13**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	8	79	**10.13**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	5	43	**11.63**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	4	31	**12.90**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	54	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	23	**13.04**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	54	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	23	**13.04**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	38	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	3	54	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	3	23	**13.04**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

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*	
Matrix Spikes (MS) - Continued							
Total Metals by ICP-AES	EG005T	4	79	**5.06**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	4	43	**9.30**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
WAD Cyanide by Segmented Flow Analyser	EK028SF	2	31	**6.45**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

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)							
Pesticides by GCMS	EP068	0	5	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	32	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	32	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	32	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	0	5	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	9	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	32	**6.25**	**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	EA055-103	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 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)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060A. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
WAD Cyanide by Segmented Flow Analyser	EK028SF	SOIL	In house: Referenced to APHA 4500-CN-O. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Hydrogen cyanide is liberated from a slightly acidified (pH 4.5) and is dialysed. Tight cyanide complexes that would not be amenable to oxidation by chlorine are not converted. Iron cyanide complexes are precipitated with zinc acetate. Liberated HCN diffuses through a membrane into a stream of sodium hydroxide where it is carried as CN- The cyanide in caustic solution is buffered to pH 5.2 and further converted to cyanogen chloride by reaction with chloramine-T. Cyanogen chloride subsequently reacts with 4 ¿pyridine carboxylic and 1,3 - dimethylbarbituric acids to give a red colour complex. This colour is measured at 600 nm. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.

Analytical Methods	Method	Matrix	Method Descriptions
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	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. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The 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)
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
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)
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for sparging.

CHAIN OF CUSTODY

Environmental Site Assessments

LAB: Eurofins | mgt	TURNAROUND REQUIREMENTS:	[X] Standard TAT (List due date):	FOR LABORATORY USE ONLY (Circle)
CLIENT: ENVIRONMENTAL SITE ASSESSMENTS		[ ] Non Standard or urgent TAT (List due date):	Custody Seal Intact? Yes No N/A
OFFICE: PO BOX 3106, WAURN PONDS VIC 3216	QUOTE NO.: #150911ESA	COC SEQUENCE NUMBER (Circle)	Ice / frozen ice bricks present? Yes No N/A
PROJECT: Mollers Lane, Leopold		COC: 1 2 3 4 5 6 7	Random Sample Temperature on Receipt: °C
PROJECT MANAGER: Seton Lilas	CONTACT PH: 0433 747 1878	OF: 1 2 3 4 5 6 7	Other comment:
SAMPLER: A.Stephens	SAMPLER MOBILE: 0428 889 276		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
A Stephens	Calliope EF | mgt		
DATE/TIME: 22/7/16 17:10	DATE/TIME: 22/7 5.14pm	DATE/TIME:	DATE/TIME:

Email Reports to: office@esagroup.com.au; aidan@esagroup.com.au

Email Invoice to: accounts@esagroup.com.au

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

Method of Delivery: Courier [ ] Hand Delivered [X] Postal [ ]

	SAMPLE DETAILS MATRIX: SOLID (S) WATER (W)			CONTAINER INFORMATION		ANALYSIS REQUIRED								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE	TOTAL CONTAINERS	TRH C6-C40	BTEXN	PAH	8 metals	OC/OP	15 metals	C6-C10		
	QC03	21/7	S	Soil Jar	1	X	X	X	X					
	QC05	21/7	S	Soil Jar	1					X	X			
	QC10	21/7	W	40ml V	1		X					X		
	QC14	22/7	S	Soil Jar	1	X	X	X	X					
				TOTAL	4									

SE9086

Certificate of Analysis

Environmental Site Assessments P/L
2 Homestead Crt
Highton
VIC 3216

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **- Seton Lillas**

Report **509086-S**
Project name MOLLERS LANE LEOPOLD
Received Date Jul 22, 2016

Client Sample ID			**QC03**	**QC05**	**QC14**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M16-Jl19708**	**M16-Jl19709**	**M16-Jl19711**
Date Sampled			**Jul 21, 2016**	**Jul 21, 2016**	**Jul 22, 2016**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	-	66
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5

Client Sample ID			QC03	QC05	QC14
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M16-Jl19708**	**M16-Jl19709**	**M16-Jl19711**
Date Sampled			**Jul 21, 2016**	**Jul 21, 2016**	**Jul 22, 2016**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	73	-	89
p-Terphenyl-d14 (surr.)	1	%	79	-	92
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	-	0.10	-
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	%	-	95	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	-
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-
Bolstar	0.2	mg/kg	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-
Coumaphos	2	mg/kg	-	< 2	-
Demeton-S	0.2	mg/kg	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	< 0.2	-
Diazinon	0.2	mg/kg	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	< 0.2	-
EPN	0.2	mg/kg	-	< 0.2	-
Ethion	0.2	mg/kg	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-
Fenthion	0.2	mg/kg	-	< 0.2	-

Client Sample ID			QC03	QC05	QC14
Sample Matrix			Soil	Soil	Soil
Eurofins | mgt Sample No.			M16-Jl19708	M16-Jl19709	M16-Jl19711
Date Sampled			Jul 21, 2016	Jul 21, 2016	Jul 22, 2016
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Malathion	0.2	mg/kg	-	< 0.2	-
Merphos	0.2	mg/kg	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	< 0.2	-
Monocrotophos	2	mg/kg	-	< 2	-
Naled	0.2	mg/kg	-	< 0.2	-
Omethoate	2	mg/kg	-	< 2	-
Phorate	0.2	mg/kg	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-
Ronnel	0.2	mg/kg	-	< 0.2	-
Terbufos	0.2	mg/kg	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	94	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
TRH >C10-C16	50	mg/kg	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100
Chromium (hexavalent)	1	mg/kg	-	< 1	-
Chromium (trivalent)	5	mg/kg	-	< 5	-
% Moisture	1	%	23	13	12
Heavy Metals					
Arsenic	2	mg/kg	2.4	3.5	2.2
Barium	10	mg/kg	-	< 10	-
Beryllium	2	mg/kg	-	< 2	-
Boron	10	mg/kg	-	< 10	-
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	8.8	< 5	< 5
Cobalt	5	mg/kg	-	< 5	-
Copper	5	mg/kg	8.5	< 5	< 5
Lead	5	mg/kg	97	< 5	< 5
Manganese	5	mg/kg	-	21	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5
Vanadium	10	mg/kg	-	12	-
Zinc	5	mg/kg	120	6.7	12

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
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jul 25, 2016	14 Day
- Method: TRH C6-C36 - LTM-ORG-2010			
BTEX	Melbourne	Jul 25, 2016	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 25, 2016	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 25, 2016	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jul 25, 2016	14 Day
- Method: USEPA 8270 Polycyclic Aromatic Hydrocarbons			
Organochlorine Pesticides	Melbourne	Jul 25, 2016	14 Day
- Method: USEPA 8081 Organochlorine Pesticides			
Organophosphorus Pesticides	Melbourne	Jul 25, 2016	14 Day
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Chromium (hexavalent)	Melbourne	Jul 27, 2016	28 Day
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Heavy Metals	Melbourne	Jul 25, 2016	180 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
Metals M8	Melbourne	Jul 25, 2016	28 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
% Moisture	Melbourne	Jul 25, 2016	14 Day
- Method: LTM-GEN-7080 Moisture			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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

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

Company Name: Environmental Site Assessments P/L
Address: 2 Homestead Crt
Highton
VIC 3216

Project Name: MOLLERS LANE LEOPOLD

Order No.:
Report #: 509086
Phone:
Fax:

Received: Jul 22, 2016 5:14 PM
Due: Jul 29, 2016
Priority: 5 Day
Contact Name: - Seton Lillas

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Metals M8	NEPM 1999 Metals : Metals M15	BTEX and Naphthalene	Moisture Set	Total Recoverable Hydrocarbons	BTEX and Volatile TRH
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														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	QC03	Jul 21, 2016		Soil	M16-Jl19708	X			X		X	X	X	
2	QC05	Jul 21, 2016		Soil	M16-Jl19709		X	X		X		X		
3	QC10	Jul 21, 2016		Water	M16-Jl19710									X
4	QC14	Jul 22, 2016		Soil	M16-Jl19711	X			X		X	X	X	
Test Counts						2	1	1	2	1	2	3	2	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, 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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	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							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Barium	mg/kg	< 10			10	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	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	
Nickel	mg/kg	< 5			5	Pass	
Vanadium	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	104			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	111			70-130	Pass	
Toluene	%	116			70-130	Pass	
Ethylbenzene	%	118			70-130	Pass	
m&p-Xylenes	%	113			70-130	Pass	
Xylenes - Total	%	114			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	120			70-130	Pass	
TRH C6-C10	%	97			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	107			70-130	Pass	
Anthracene	%	117			70-130	Pass	
Benz(a)anthracene	%	108			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	129			70-130	Pass	
Benzo(g.h.i)perylene	%	73			70-130	Pass	
Benzo(k)fluoranthene	%	126			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	87			70-130	Pass	
Fluoranthene	%	102			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	73			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	105			70-130	Pass	
Pyrene	%	99			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
4.4'-DDD	%	96			70-130	Pass	
4.4'-DDE	%	91			70-130	Pass	
4.4'-DDT	%	76			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	97			70-130	Pass	
b-BHC	%	103			70-130	Pass	
d-BHC	%	97			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dieldrin	%	92			70-130	Pass	
Endosulfan I	%	92			70-130	Pass	
Endosulfan II	%	89			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	93			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	83			70-130	Pass	
g-BHC (Lindane)	%	97			70-130	Pass	
Heptachlor	%	94			70-130	Pass	
Heptachlor epoxide	%	90			70-130	Pass	
Hexachlorobenzene	%	87			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	93			70-130	Pass	
Dimethoate	%	111			70-130	Pass	
Ethion	%	114			70-130	Pass	
Fenitrothion	%	125			70-130	Pass	
Methyl parathion	%	114			70-130	Pass	
Mevinphos	%	108			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	105			70-130	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	102			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			80-120	Pass	
Barium	%	108			80-120	Pass	
Beryllium	%	100			80-120	Pass	
Boron	%	91			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	98			80-120	Pass	
Cobalt	%	98			80-120	Pass	
Copper	%	101			80-120	Pass	
Lead	%	100			80-120	Pass	
Manganese	%	102			80-120	Pass	
Mercury	%	107			75-125	Pass	
Nickel	%	96			80-120	Pass	
Vanadium	%	96			80-120	Pass	
Zinc	%	102			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	Z16-Jl17174	NCP	%	95			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	Z16-Jl17174	NCP	%	104			70-130	Pass	
Toluene	Z16-Jl17174	NCP	%	107			70-130	Pass	
Ethylbenzene	Z16-Jl17174	NCP	%	107			70-130	Pass	
m&p-Xylenes	Z16-Jl17174	NCP	%	101			70-130	Pass	
o-Xylene	Z16-Jl17174	NCP	%	106			70-130	Pass	
Xylenes - Total	Z16-Jl17174	NCP	%	103			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	Z16-Jl17174	NCP	%	103			70-130	Pass	
TRH C6-C10	Z16-Jl17174	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M16-Jl18071	NCP	%	87			70-130	Pass	
Acenaphthylene	M16-Jl18071	NCP	%	89			70-130	Pass	
Anthracene	M16-Jl18071	NCP	%	98			70-130	Pass	
Benz(a)anthracene	M16-Jl18071	NCP	%	90			70-130	Pass	
Benzo(a)pyrene	M16-Jl18071	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	M16-Jl18071	NCP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	M16-Jl18071	NCP	%	81			70-130	Pass	
Benzo(k)fluoranthene	M16-Jl18071	NCP	%	109			70-130	Pass	
Chrysene	M16-Jl18071	NCP	%	85			70-130	Pass	
Dibenz(a.h)anthracene	M16-Jl18071	NCP	%	82			70-130	Pass	
Fluoranthene	M16-Jl18071	NCP	%	85			70-130	Pass	
Fluorene	M16-Jl18071	NCP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M16-Jl18071	NCP	%	71			70-130	Pass	
Naphthalene	M16-Jl18071	NCP	%	87			70-130	Pass	
Phenanthrene	M16-Jl18071	NCP	%	92			70-130	Pass	
Pyrene	M16-Jl18071	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M16-Jl18568	NCP	%	95			75-125	Pass	
Cadmium	M16-Jl18568	NCP	%	104			75-125	Pass	
Chromium	M16-Jl18568	NCP	%	109			75-125	Pass	
Copper	M16-Jl18568	NCP	%	114			75-125	Pass	
Lead	M16-Jl18568	NCP	%	99			75-125	Pass	
Mercury	M16-Jl18568	NCP	%	90			70-130	Pass	
Nickel	M16-Jl18568	NCP	%	101			75-125	Pass	
Zinc	M16-Jl18568	NCP	%	101			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	M16-Jl19725	NCP	%	100			70-130	Pass	
4.4'-DDE	M16-Jl19725	NCP	%	99			70-130	Pass	
4.4'-DDT	M16-Jl19725	NCP	%	78			70-130	Pass	
a-BHC	M16-Jl19725	NCP	%	107			70-130	Pass	
Aldrin	M16-Jl19725	NCP	%	105			70-130	Pass	
b-BHC	M16-Jl19725	NCP	%	108			70-130	Pass	
d-BHC	M16-Jl19725	NCP	%	100			70-130	Pass	
Dieldrin	M16-Jl19725	NCP	%	100			70-130	Pass	
Endosulfan I	M16-Jl19725	NCP	%	102			70-130	Pass	
Endosulfan II	M16-Jl19725	NCP	%	91			70-130	Pass	
Endosulfan sulphate	M16-Jl19725	NCP	%	89			70-130	Pass	
Endrin	M16-Jl19725	NCP	%	97			70-130	Pass	
Endrin aldehyde	M16-Jl19725	NCP	%	88			70-130	Pass	
Endrin ketone	M16-Jl19725	NCP	%	88			70-130	Pass	
g-BHC (Lindane)	M16-Jl19725	NCP	%	102			70-130	Pass	
Heptachlor	M16-Jl19725	NCP	%	96			70-130	Pass	
Heptachlor epoxide	M16-Jl19725	NCP	%	124			70-130	Pass	
Hexachlorobenzene	M16-Jl19725	NCP	%	92			70-130	Pass	
Methoxychlor	M16-Jl19725	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Diazinon	M16-Jl19434	NCP	%	88			70-130	Pass	
Dimethoate	M16-Jl19434	NCP	%	84			70-130	Pass	
Ethion	M16-Jl19434	NCP	%	107			70-130	Pass	
Fenitrothion	M16-Jl19434	NCP	%	101			70-130	Pass	
Methyl parathion	M16-Jl19434	NCP	%	89			70-130	Pass	
Mevinphos	M16-Jl19434	NCP	%	117			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M16-Jl18183	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Barium	M16-Jl18568	NCP	%	101			75-125	Pass	
Beryllium	M16-Jl18568	NCP	%	110			75-125	Pass	
Boron	M16-Jl18568	NCP	%	91			75-125	Pass	
Cobalt	M16-Jl18568	NCP	%	102			75-125	Pass	
Manganese	M16-Jl18568	NCP	%	100			75-125	Pass	
Vanadium	M16-Jl18568	NCP	%	105			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M16-Jl19437	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M16-Jl18745	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M16-Jl18745	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M16-Jl18745	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M16-Jl19437	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M16-Jl19437	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M16-Jl19437	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M16-Jl19437	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M16-Jl19437	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	M16-Jl19437	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M16-Jl19437	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M16-Jl19437	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M16-Jl18745	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M16-Jl18745	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M16-Jl18745	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M16-Jl19706	NCP	%	8.6	8.3	4.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M16-Jl19722	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Dieldrin	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M16-Jl19722	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M16-Jl19722	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M16-Jl19838	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M16-Jl19838	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M16-Jl19838	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M16-Jl19838	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M16-Jl19661	NCP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M16-Jl19711	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M16-Jl19711	CP	mg/kg	2.2	3.4	41	30%	Fail	Q15
Barium	M16-Jl19711	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Beryllium	M16-Jl19711	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M16-Jl19711	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M16-Jl19711	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M16-Jl19711	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M16-Jl19711	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M16-Jl19711	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M16-Jl19711	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M16-Jl19711	CP	mg/kg	14	16	15	30%	Pass	
Mercury	M16-Jl19711	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M16-Jl19711	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Vanadium	M16-Jl19711	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M16-Jl19711	CP	mg/kg	12	15	26	30%	Pass	

Quality Control Analyte Summary Compliance

The table below is the actual occurrence of QC performed on the batch of samples within this report and as defined below

Analysis	Samples Analysed	Laboratory Duplicates Reported	Laboratory Matrix Spikes Reported	Method Blanks Reported	Laboratory Control Samples Reported
BTEX	2	1	1	1	1
Total Recoverable Hydrocarbons - 1999 NEPM	2	1	1	1	1
Total Recoverable Hydrocarbons - 2013 NEPM	2	1	1	1	1
Polycyclic Aromatic Hydrocarbons	2	1	1	1	1
Organochlorine Pesticides	1	1	1	1	1
Organophosphorus Pesticides	1	1	1	1	1
Chromium (hexavalent)	1	1	1	1	1
% Moisture	3	1	NA	NA	NA
Heavy Metals	3	1	2	2	2

Quality Control Parameter Frequency Compliance follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure April 2011, Schedule B3, Guideline on Laboratory Analysis of Potentially Contaminated Soils and US EPA SW-846 Chapter 1: 'Quality Control'.

It comprises the following when a laboratory process batch is deemed to consist of up to 20 samples that are similar in terms of matrix and test procedure, and are processed as one unit for QC purposes. If more than 20 samples are being processed, they are considered as more than one batch.

Method blank

One method blank per process batch.

Laboratory duplicate

There should be at least one duplicate per process batch, or two duplicates if the process batch exceeds 10 samples.

Laboratory control sample (LCS)

There should be at least one LCS per process batch.

Matrix spikes

There should be one matrix spike per matrix type per process batch.

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | 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
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Huong Le	Senior Analyst-Inorganic (VIC)
Mele Singh	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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Certificate of Analysis

Environmental Site Assessments P/L
2 Homestead Crt
Highton
VIC 3216

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **- Seton Lillas**

Report **509086-W**
Project name MOLLERS LANE LEOPOLD
Received Date Jul 22, 2016

Client Sample ID			**QC10**
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**M16-Jl19710**
Date Sampled			**Jul 21, 2016**
Test/Reference	LOR	Unit	
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH C6-C10	0.02	mg/L	< 0.02
Volatile Organics			
Naphthalene[N02]	0.01	mg/L	< 0.01

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
TRH C6-C10 less BTEX (F1)	Melbourne	Jul 25, 2016	14 Day
- Method: LM-LTM-ORG-2010			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jul 25, 2016	7 Day
- Method: TRH C6-C36 - LTM-ORG-2010			
BTEX	Melbourne	Jul 25, 2016	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 25, 2016	7 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Volatile Organics	Melbourne	Jul 25, 2016	7 Day
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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

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

Company Name: Environmental Site Assessments P/L
Address: 2 Homestead Crt
Highton
VIC 3216

Project Name: MOLLERS LANE LEOPOLD

Order No.:
Report #: 509086
Phone:
Fax:

Received: Jul 22, 2016 5:14 PM
Due: Jul 29, 2016
Priority: 5 Day
Contact Name: - Seton Lillas

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Metals M8	NEPM 1999 Metals : Metals M15	BTEX and Naphthalene	Moisture Set	Total Recoverable Hydrocarbons	BTEX and Volatile TRH
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														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	QC03	Jul 21, 2016		Soil	M16-Jl19708	X			X		X	X	X	
2	QC05	Jul 21, 2016		Soil	M16-Jl19709		X	X		X		X		
3	QC10	Jul 21, 2016		Water	M16-Jl19710									X
4	QC14	Jul 22, 2016		Soil	M16-Jl19711	X			X		X	X	X	
Test Counts						2	1	1	2	1	2	3	2	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, 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							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Volatile Organics							
Naphthalene	mg/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	103			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	123			70-130	Pass	
Toluene	%	109			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
Xylenes - Total	%	100			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	96			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
Naphthalene	%	117			70-130	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	M16-Jl16700	NCP	%	126			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M16-Jl16700	NCP	%	112			70-130	Pass	
Toluene	M16-Jl16700	NCP	%	104			70-130	Pass	
Ethylbenzene	M16-Jl16700	NCP	%	106			70-130	Pass	
m&p-Xylenes	M16-Jl16700	NCP	%	101			70-130	Pass	
o-Xylene	M16-Jl16700	NCP	%	105			70-130	Pass	
Xylenes - Total	M16-Jl16700	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	M16-Jl16700	NCP	%	118			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Naphthalene	M16-Jl16700	NCP	%	117			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M16-Jl16862	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M16-Jl16862	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M16-Jl16862	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M16-Jl16862	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M16-Jl16862	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M16-Jl16862	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	M16-Jl16862	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C10	M16-Jl16862	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Naphthalene	M16-Jl16862	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

Quality Control Analyte Summary Compliance

The table below is the actual occurrence of QC performed on the batch of samples within this report and as defined below

Analysis	Samples Analysed	Laboratory Duplicates Reported	Laboratory Matrix Spikes Reported	Method Blanks Reported	Laboratory Control Samples Reported
Total Recoverable Hydrocarbons - 1999 NEPM	1	1	1	1	1
Total Recoverable Hydrocarbons - 2013 NEPM	1	1	1	NA	NA
BTEX	1	1	1	1	1
Volatile Organics	1	1	1	1	1

Quality Control Parameter Frequency Compliance follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure April 2011, Schedule B3, Guideline on Laboratory Analysis of Potentially Contaminated Soils and US EPA SW-846 Chapter 1: 'Quality Control'.

It comprises the following when a laboratory process batch is deemed to consist of up to 20 samples that are similar in terms of matrix and test procedure, and are processed as one unit for QC purposes. If more than 20 samples are being processed, they are considered as more than one batch.

Method blank

One method blank per process batch.

Laboratory duplicate

There should be at least one duplicate per process batch, or two duplicates if the process batch exceeds 10 samples.

Laboratory control sample (LCS)

There should be at least one LCS per process batch.

Matrix spikes

There should be one matrix spike per matrix type per process batch.

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
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.

Authorised By

Mary Makarios	Analytical Services Manager
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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Appendix 13: Field Logbook

DAILY FIELD RECORD

Environmental Site Assessments

Site / Project: **Mollers Lane**	Date: **21&22 July 2016**
Client: **TGM**	Arrival On-site: 10.00 am
ESA Personnel On-site: Aidan Stephens and Chris Chapman	Departure Off-site: 3.00 pm
	Notes by: CC
Other Personnel On-site:	

Site Activities	Comments / Details
21&22 July 2016	Soil sampling and site inspections as per scope of works.
	Photographs of sites taken. No evidence of contamination.
	No variation from sampling plan required.

Notes

Equipment Calibration

Sensor	Type	Serial Number	Span Gas	Concentration	Reading	
					Zero	Span
PID	10.6ev	1062P831018	Isobutylene	100ppm	0	100

Appendix 14: Photoionisation Detector ('PID') Calibration Forms

Environmental Site Assessments

PID Calibration Record

Project Name	Mollers Lane	Calibrated By	ATS
Project Address	2-170 Mollers Lane Leopold	Date	21.7.16

Sensor	Type	Serial Number	Span Gas	Concentration	Reading	
					Zero	Span
PID	10.6ev	1062P831018	Isobutylene	100ppm	0.0	100.0
PID	10.6ev	1062R919002	Isobutylene	100ppm		

Environmental Site Assessments

PID Calibration Record

Project Name	Mollers Lane	Calibrated By	ATS
Project Address	2-120 Mollers Lane, Leopold	Date	22.7.16

Sensor	Type	Serial Number	Span Gas	Concentration	Reading	
					Zero	Span
PID	10.6ev	1062P831018	Isobutylene	100ppm	0.0	100.0
PID	10.6ev	1062R919002	Isobutylene	100ppm		

Appendix 15 - Comparison Tables and 95%UCLaverage Calculations for Lead

				BTEX								Halogenated Benzenes	Halogenated Phenols						Herbicides
				Tokuthion	Benzene	Ethylbenzene	Toluene	Total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	Hexachlorobenzene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	Atrazine
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.2	0.1	0.3	10	0.05	0.5	0.5	0.5	0.5	0.5	2	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil													10						100	320
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																	
VP01	0-0.15	VP01/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP02	0-0.15	VP02/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP03	0-0.15	VP03/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP04	0-0.15	VP04/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP05	0-0.15	VP05/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP06	0-0.15	QC02	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP06	0-0.15	QC03	21/07/2016	-	<0.1	<0.1	<0.1	-	<0.2	<0.1	<0.3	<20	-	-	-	-	-	-	-	-
VP06	0-0.15	VP06/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP07	0-0.15	VP07/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP08	0-0.15	VP08/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP09	0-0.15	VP09/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP10	0-0.15	VP10/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP11	0-0.15	VP11/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP12	0-0.15	VP12/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP13	0-0.15	VP13/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP14	0-0.15	VP14/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP15	0-0.15	VP15/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP16	0-0.15	VP16/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP17	0-0.15	VP17/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP18	0-0.15	VP18/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP19	0-0.15	VP19/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP20	0-0.15	VP20/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP21	0-0.15	VP21/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP22	0-0.15	VP22/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP23	0-0.15	VP23/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP24	0-0.15	VP24/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP25	0-0.15	QC04	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP25	0-0.15	QC05	21/07/2016	<0.2	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP25	0-0.15	VP25/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP26	0-0.15	VP26/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP27	0-0.15	VP27/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP28	0-0.15	VP28/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP29	0-0.15	VP29/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-

		BTEX								Halogenated Benzenes	Halogenated Phenols						Herbicides
	Tokuthion	Benzene	Ethylbenzene	Toluene	Total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	Hexachlorobenzene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	Atrazine
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.2	0.1	0.3	10	0.05	0.5	0.5	0.5	0.5	0.5	2	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil										10						100	320

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																
VP30	0-0.15	VP30/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP31	0-0.15	VP31/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP32	0-0.15	VP32/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP33	0-0.15	VP33/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP34	0-0.15	VP34/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP35	0-0.15	VP35/0-0.15	21/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP36	0-0.15	VP36/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP37	0-0.15	VP37/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05
VP38	0-0.15	VP38/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP39	0-0.15	VP39/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP40	0-0.15	QC13	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP40	0-0.15	QC14	22/07/2016	-	<0.1	<0.1	<0.1	-	<0.2	<0.1	<0.3	<20	-	-	-	-	-	-	-	-
VP40	0-0.15	VP40/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP41	0-0.15	VP41/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP42	0-0.15	VP42/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP43	0-0.15	VP43/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP44	0-0.15	VP44/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	-	-	-	-	-	-	-	-
VP45	0-0.15	VP45/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP46	0-0.15	VP46/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP47	0-0.15	VP47/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP48	0-0.15	VP48/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP49	0-0.15	VP49/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP50	0-0.15	VP50/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP51	0-0.15	VP51/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP52	0-0.15	VP52/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP53	0-0.15	VP53/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP54	0-0.15	VP54/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP55	0-0.15	VP55/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP56	0-0.15	VP56/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP57	0-0.15	VP57/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP58	0-0.15	VP58/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP59	0-0.15	VP59/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP60	0-0.15	VP60/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
VP61	0-0.15	VP61/0-0.15	22/07/2016	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
VP62	0-0.15	VP62/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-

		BTEX								Halogenated Benzenes	Halogenated Phenols						Herbicides
	Tokuthion	Benzene	Ethylbenzene	Toluene	Total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	Hexachlorobenzene	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	Atrazine
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.2	0.1	0.3	10	0.05	0.5	0.5	0.5	0.5	0.5	2	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil										10						100	320

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																
SP01	0-0.15	SP01/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP02	0-0.15	SP02/0-0.15	8/10/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP03	0-0.15	SP03/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP04	0-0.15	SP04/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP05	0-0.15	SP05/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP06	0-0.15	SP06/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP07	0-0.15	SP07/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP08	0-0.15	SP08/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP09	0-0.15	SP09/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	8/10/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP1	0-0.15	SP1/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP2	0-0.15	SP2/0-0.15	20/08/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP3	0-0.15	SP3/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP4	0-0.15	SP4/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP5	0-0.15	SP5/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP6	0-0.15	SP6/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP7	0-0.15	SP7/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP8	0-0.15	SP8/0-0.15	20/08/2015	-	<0.2	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<10	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.05
SP9	0-0.15	SP9/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-

				Inorganics		Lead	Metals																		
				Moisture	Moisture Content (dried @ 103°C)	Lead	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Chromium (Trivalent)	Cobalt	Copper	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc	4,4-DDE	a-BHC
				%	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	10	1	10	0.4	0.5	2		2	5	5	0.1	2	5	5	5	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil						300	100		60	4500	20	100			100	6000	3800	40	400	200		7400		
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP01	0-0.15	VP01/0-0.15	21/07/2016	14.4	-	12	7	20	<1	<50	<1	<0.5	16	-	3	<5	23	<0.1	4	<5	47	13	<0.05	<0.05
VP02	0-0.15	VP02/0-0.15	21/07/2016	14	-	17	6	20	<1	<50	<1	<0.5	13	-	<2	<5	18	<0.1	3	<5	38	9	<0.05	<0.05
VP03	0-0.15	VP03/0-0.15	21/07/2016	12.1	-	19	6	20	<1	<50	<1	<0.5	12	-	<2	<5	27	<0.1	3	<5	28	11	<0.05	<0.05
VP04	0-0.15	VP04/0-0.15	21/07/2016	11.3	-	21	10	20	<1	<50	<1	<0.5	48	-	<2	<5	22	<0.1	5	<5	102	16	<0.05	<0.05
VP05	0-0.15	VP05/0-0.15	21/07/2016	13.9	-	28	<5	20	<1	<50	<1	-	6	-	<2	<5	33	<0.1	2	<5	14	27	0.17	<0.05
VP06	0-0.15	QC02	21/07/2016	14.7	-	120	6	-	-	-	<1	-	11	-	-	9	-	0.3	3	-	-	145	-	-
VP06	0-0.15	QC03	21/07/2016	-	23	97	2.4	-	-	-	0.5	-	8.8	-	-	8.5	-	<0.1	<5	-	-	120	-	-
VP06	0-0.15	VP06/0-0.15	21/07/2016	13.7	-	159	6	-	-	-	<1	-	9	-	-	8	-	0.4	3	-	-	153	-	-
VP07	0-0.15	VP07/0-0.15	21/07/2016	15.1	-	31	10	-	-	-	<1	-	20	-	-	15	-	<0.1	6	-	-	90	-	-
VP08	0-0.15	VP08/0-0.15	21/07/2016	13.5	-	302	14	-	-	-	<1	-	22	-	-	23	-	0.2	8	-	-	283	-	-
VP09	0-0.15	VP09/0-0.15	21/07/2016	18.6	-	61	7	40	<1	<50	<1	-	11	-	2	9	60	<0.1	6	<5	22	144	<0.05	<0.05
VP10	0-0.15	VP10/0-0.15	21/07/2016	12.7	-	29	<5	20	<1	<50	<1	-	4	-	<2	<5	107	<0.1	<2	<5	12	98	<0.05	<0.05
VP11	0-0.15	VP11/0-0.15	21/07/2016	14.3	-	23	<5	20	<1	<50	<1	-	9	-	<2	<5	50	<0.1	2	<5	18	23	<0.05	<0.05
VP12	0-0.15	VP12/0-0.15	21/07/2016	9.8	-	<5	<5	-	-	-	<1	-	41	-	-	51	-	<0.1	159	-	-	58	-	-
VP13	0-0.15	VP13/0-0.15	21/07/2016	10.7	-	7	7	<10	<1	<50	<1	-	8	-	<2	<5	9	<0.1	3	<5	21	8	<0.05	<0.05
VP14	0-0.15	VP14/0-0.15	21/07/2016	12.8	-	21	5	20	<1	<50	<1	-	11	-	<2	<5	43	<0.1	3	<5	30	18	<0.05	<0.05
VP15	0-0.15	VP15/0-0.15	21/07/2016	14.8	-	18	<5	10	<1	<50	<1	-	4	-	<2	<5	37	<0.1	2	<5	10	18	<0.05	<0.05
VP16	0-0.15	VP16/0-0.15	21/07/2016	10.5	-	17	<5	20	<1	<50	<1	<0.5	6	-	<2	<5	28	<0.1	<2	<5	15	19	<0.05	<0.05
VP17	0-0.15	VP17/0-0.15	21/07/2016	17.4	-	20	7	20	<1	<50	<1	-	8	-	<2	<5	44	<0.1	3	<5	36	31	<0.05	<0.05
VP18	0-0.15	VP18/0-0.15	21/07/2016	13.1	-	20	<5	20	<1	<50	<1	-	4	-	<2	<5	42	<0.1	<2	<5	8	22	<0.05	<0.05
VP19	0-0.15	VP19/0-0.15	21/07/2016	25.1	-	25	<5	20	<1	<50	<1	-	7	-	<2	<5	52	<0.1	4	<5	25	24	<0.05	<0.05
VP20	0-0.15	VP20/0-0.15	21/07/2016	9.4	-	8	7	10	<1	<50	<1	<0.5	7	-	<2	<5	13	<0.1	<2	<5	26	6	<0.05	<0.05
VP21	0-0.15	VP21/0-0.15	21/07/2016	8.8	-	<5	<5	10	<1	<50	<1	-	2	-	<2	<5	<5	<0.1	<2	<5	9	<5	<0.05	<0.05
VP22	0-0.15	VP22/0-0.15	21/07/2016	10.4	-	<5	<5	<10	<1	<50	<1	<0.5	3	-	<2	<5	<5	<0.1	<2	<5	10	<5	0.05	<0.05
VP23	0-0.15	VP23/0-0.15	21/07/2016	12	-	<5	<5	<10	<1	<50	<1	-	4	-	<2	<5	<5	<0.1	<2	<5	10	<5	0.06	<0.05
VP24	0-0.15	VP24/0-0.15	21/07/2016	11.9	-	<5	<5	<10	<1	<50	<1	<0.5	2	-	<2	<5	<5	<0.1	<2	<5	<5	<5	<0.05	<0.05
VP25	0-0.15	QC04	21/07/2016	12.4	-	<5	<5	<10	<1	<50	<1	-	3	-	<2	<5	21	<0.1	<2	<5	14	8	<0.05	<0.05
VP25	0-0.15	QC05	21/07/2016	-	13	<5	3.5	<10	<2	<10	<0.4	<1	<5	<5	<5	<5	21	<0.1	<5	-	12	6.7	<0.05	<0.05
VP25	0-0.15	VP25/0-0.15	21/07/2016	14.3	-	8	<5	<10	<1	<50	<1	-	5	-	<2	<5	7	<0.1	<2	<5	20	<5	<0.05	<0.05
VP26	0-0.15	VP26/0-0.15	21/07/2016	9.5	-	<5	<5	<10	<1	<50	<1	<0.5	<2	-	<2	<5	<5	<0.1	<2	<5	6	<5	<0.05	<0.05
VP27	0-0.15	VP27/0-0.15	21/07/2016	16.3	-	<5	<5	<10	<1	<50	<1	-	4	-	<2	<5	13	<0.1	<2	<5	11	6	<0.05	<0.05
VP28	0-0.15	VP28/0-0.15	21/07/2016	12.1	-	10	<5	10	<1	<50	<1	-	5	-	<2	<5	13	<0.1	<2	<5	13	8	<0.05	<0.05
VP29	0-0.15	VP29/0-0.15	21/07/2016	11.9	-	15	9	30	<1	<50	<1	-	25	-	4	<5	14	<0.1	7	<5	54	13	<0.05	<0.05

	Inorganics		Lead	Metals																		
	Moisture	Moisture Content (dried @ 103°C)	Lead	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Chromium (Trivalent)	Cobalt	Copper	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc	4,4-DDE	a-BHC
	%	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	10	1	10	0.4	0.5	2		2	5	5	0.1	2	5	5	5	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil			300	100		60	4500	20	100			100	6000	3800	40	400	200		7400		

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																			
VP30	0-0.15	VP30/0-0.15	21/07/2016	23.3	-	15	20	-	-	-	<1	-	62	-	-	<5	-	<0.1	20	-	-	14	-	-
VP31	0-0.15	VP31/0-0.15	21/07/2016	9.8	-	10	<5	-	-	-	<1	-	6	-	-	<5	-	<0.1	<2	-	-	5	-	-
VP32	0-0.15	VP32/0-0.15	21/07/2016	9.9	-	6	<5	<10	<1	<50	<1	<0.5	5	-	<2	<5	12	<0.1	<2	<5	13	5	<0.05	<0.05
VP33	0-0.15	VP33/0-0.15	21/07/2016	14.8	-	8	29	-	-	-	<1	-	14	-	-	<5	-	<0.1	4	-	-	7	-	-
VP34	0-0.15	VP34/0-0.15	21/07/2016	14.7	-	7	13	20	<1	<50	<1	-	20	-	3	<5	21	<0.1	6	<5	46	8	<0.05	<0.05
VP35	0-0.15	VP35/0-0.15	21/07/2016	8	-	<5	<5	<10	<1	<50	<1	<0.5	4	-	<2	<5	<5	<0.1	<2	<5	11	<5	<0.05	<0.05
VP36	0-0.15	VP36/0-0.15	22/07/2016	11.4	-	6	6	-	-	-	<1	-	4	-	-	<5	-	<0.1	<2	-	-	8	-	-
VP37	0-0.15	VP37/0-0.15	22/07/2016	10.2	-	11	<5	10	<1	<50	<1	-	4	-	<2	<5	17	<0.1	<2	<5	14	12	<0.05	<0.05
VP38	0-0.15	VP38/0-0.15	22/07/2016	13.8	-	6	<5	<10	<1	<50	<1	<0.5	3	-	<2	<5	15	<0.1	<2	<5	10	44	<0.05	<0.05
VP39	0-0.15	VP39/0-0.15	22/07/2016	19.6	-	<5	<5	20	<1	<50	<1	<0.5	12	-	18	28	412	<0.1	74	<5	22	66	<0.05	<0.05
VP40	0-0.15	QC13	22/07/2016	10	-	8	<5	-	-	-	<1	-	<2	-	-	<5	-	<0.1	<2	-	-	24	-	-
VP40	0-0.15	QC14	22/07/2016	-	12	<5	2.2	-	-	-	<0.4	-	<5	-	-	<5	-	<0.1	<5	-	-	12	-	-
VP40	0-0.15	VP40/0-0.15	22/07/2016	10.6	-	5	<5	-	-	-	<1	-	<2	-	-	<5	-	<0.1	2	-	-	13	-	-
VP41	0-0.15	VP41/0-0.15	22/07/2016	12.6	-	40	<5	-	-	-	<1	-	6	-	-	8	-	<0.1	13	-	-	113	-	-
VP42	0-0.15	VP42/0-0.15	22/07/2016	13.1	-	<5	5	30	<1	<50	<1	-	18	-	17	23	297	<0.1	73	<5	20	51	<0.05	<0.05
VP43	0-0.15	VP43/0-0.15	22/07/2016	8.6	-	<5	<5	-	-	-	<1	-	14	-	-	13	-	<0.1	35	-	-	16	-	-
VP44	0-0.15	VP44/0-0.15	22/07/2016	19.4	-	12	10	-	-	-	<1	-	43	-	-	5	-	<0.1	16	-	-	21	-	-
VP45	0-0.15	VP45/0-0.15	22/07/2016	28.9	-	12	7	20	<1	<50	<1	-	15	-	3	<5	71	<0.1	10	<5	47	32	<0.05	<0.05
VP46	0-0.15	VP46/0-0.15	22/07/2016	14.1	-	17	<5	10	<1	<50	<1	-	3	-	<2	<5	15	<0.1	<2	<5	17	27	<0.05	<0.05
VP47	0-0.15	VP47/0-0.15	22/07/2016	12.4	-	10	<5	10	<1	<50	<1	<0.5	3	-	<2	<5	13	<0.1	<2	<5	10	<5	<0.05	<0.05
VP48	0-0.15	VP48/0-0.15	22/07/2016	17.4	-	10	7	20	<1	<50	<1	-	10	-	3	<5	62	<0.1	4	<5	41	6	<0.05	<0.05
VP49	0-0.15	VP49/0-0.15	22/07/2016	13	-	<5	<5	<10	<1	<50	<1	<0.5	4	-	<2	<5	8	<0.1	<2	<5	10	8	<0.05	<0.05
VP50	0-0.15	VP50/0-0.15	22/07/2016	13	-	<5	<5	<10	<1	<50	<1	-	3	-	<2	<5	24	<0.1	<2	<5	11	9	<0.05	<0.05
VP51	0-0.15	VP51/0-0.15	22/07/2016	14	-	<5	<5	<10	<1	<50	<1	<0.5	4	-	<2	<5	206	<0.1	<2	<5	14	7	<0.05	<0.05
VP52	0-0.15	VP52/0-0.15	22/07/2016	11.1	-	5	<5	<10	<1	<50	<1	-	4	-	<2	<5	8	<0.1	<2	<5	18	6	<0.05	<0.05
VP53	0-0.15	VP53/0-0.15	22/07/2016	14.3	-	6	6	10	<1	<50	<1	<0.5	6	-	<2	7	7	<0.1	2	<5	21	8	<0.05	<0.05
VP54	0-0.15	VP54/0-0.15	22/07/2016	10.6	-	6	<5	<10	<1	<50	<1	-	2	-	<2	<5	13	<0.1	<2	<5	9	6	<0.05	<0.05
VP55	0-0.15	VP55/0-0.15	22/07/2016	8.2	-	<5	<5	<10	<1	<50	<1	<0.5	<2	-	<2	<5	<5	<0.1	<2	<5	5	<5	<0.05	<0.05
VP56	0-0.15	VP56/0-0.15	22/07/2016	11.5	-	<5	<5	<10	<1	<50	<1	-	<2	-	<2	<5	9	<0.1	<2	<5	<5	<5	<0.05	<0.05
VP57	0-0.15	VP57/0-0.15	22/07/2016	11.9	-	<5	<5	<10	<1	<50	<1	<0.5	<2	-	<2	<5	9	<0.1	<2	<5	<5	<5	<0.05	<0.05
VP58	0-0.15	VP58/0-0.15	22/07/2016	11.7	-	<5	<5	<10	<1	<50	<1	-	3	-	<2	<5	12	<0.1	<2	<5	11	<5	<0.05	<0.05
VP59	0-0.15	VP59/0-0.15	22/07/2016	17.2	-	<5	<5	<10	<1	<50	<1	-	3	-	<2	<5	<5	<0.1	<2	<5	7	<5	<0.05	<0.05
VP60	0-0.15	VP60/0-0.15	22/07/2016	12.9	-	5	11	<10	<1	<50	<1	-	5	-	<2	<5	18	<0.1	<2	<5	22	5	<0.05	<0.05
VP61	0-0.15	VP61/0-0.15	22/07/2016	8.2	-	<5	6	<10	<1	<50	<1	<0.5	5	-	<2	<5	9	<0.1	<2	<5	18	<5	<0.05	<0.05
VP62	0-0.15	VP62/0-0.15	22/07/2016	11.7	-	<5	5	<10	<1	<50	<1	-	5	-	<2	<5	7	<0.1	<2	<5	17	<5	<0.05	<0.05

				Inorganics		Lead	Metals																				
				Moisture	Moisture Content (dried @ 103°C)	Lead	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Chromium (Trivalent)	Cobalt	Copper	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc	4,4-DDE	a-BHC
				%	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	10	1	10	0.4	0.5	2		2	5	5	0.1	2	5	5	5	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil						300	100		60	4500	20	100			100	6000	3800	40	400	200		7400		
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
SP01	0-0.15	SP01/0-0.15	8/10/2015	5.2	-	18	14	-	-	-	<1	-	20	-	-	<5	-	<0.1	5	-	-	14	<0.05	<0.05
SP02	0-0.15	SP02/0-0.15	8/10/2015	3.2	-	17	15	20	<1	<50	<1	<0.5	34	-	2	<5	26	<0.1	5	<5	72	8	<0.05	<0.05
SP03	0-0.15	SP03/0-0.15	8/10/2015	4.2	-	23	5	-	-	-	<1	-	10	-	-	<5	-	<0.1	3	-	-	16	<0.05	<0.05
SP04	0-0.15	SP04/0-0.15	8/10/2015	8.3	-	18	14	-	-	-	<1	-	39	-	-	<5	-	<0.1	7	-	-	6	<0.05	<0.05
SP05	0-0.15	SP05/0-0.15	8/10/2015	6.1	-	14	14	-	-	-	<1	-	21	-	-	<5	-	<0.1	4	-	-	12	<0.05	<0.05
SP06	0-0.15	SP06/0-0.15	8/10/2015	5.6	-	18	9	-	-	-	<1	-	25	-	-	<5	-	<0.1	4	-	-	24	<0.05	<0.05
SP07	0-0.15	SP07/0-0.15	8/10/2015	6.2	-	55	<5	-	-	-	<1	-	7	-	-	<5	-	<0.1	3	-	-	44	<0.05	<0.05
SP08	0-0.15	SP08/0-0.15	8/10/2015	7.4	-	29	5	-	-	-	<1	-	7	-	-	<5	-	<0.1	3	-	-	88	<0.05	<0.05
SP09	0-0.15	SP09/0-0.15	8/10/2015	2.2	-	9	<5	-	-	-	<1	-	18	-	-	<5	-	<0.1	<2	-	-	10	<0.05	<0.05
SP10	0-0.15	SP10/0-0.15	8/10/2015	5.5	-	24	7	30	<1	<50	<1	<0.5	16	-	3	<5	101	<0.1	7	<5	37	42	<0.05	<0.05
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	11.4	-	54	5	30	<1	<50	<1	<0.5	9	-	<2	5	93	<0.1	7	<5	17	510	<0.05	<0.05
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	3.2	-	<5	<5	<10	<1	<50	<1	<0.5	10	-	<2	<5	73	<0.1	3	<5	15	9	<0.05	<0.05
SP1	0-0.15	SP1/0-0.15	20/08/2015	10.4	-	5	<5	-	-	-	<1	-	4	-	-	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05
SP2	0-0.15	SP2/0-0.15	20/08/2015	12.1	-	<5	6	10	<1	<50	<1	<0.5	6	-	<2	<5	12	<0.1	<2	<5	20	5	<0.05	<0.05
SP3	0-0.15	SP3/0-0.15	20/08/2015	17.3	-	14	18	-	-	-	<1	-	22	-	-	<5	-	<0.1	9	-	-	7	<0.05	<0.05
SP4	0-0.15	SP4/0-0.15	20/08/2015	12	-	<5	<5	-	-	-	<1	-	4	-	-	<5	-	<0.1	<2	-	-	<5	0.08	<0.05
SP5	0-0.15	SP5/0-0.15	20/08/2015	10.2	-	<5	<5	-	-	-	<1	-	3	-	-	<5	-	<0.1	<2	-	-	6	<0.05	<0.05
SP6	0-0.15	SP6/0-0.15	20/08/2015	8.6	-	<5	<5	-	-	-	<1	-	2	-	-	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05
SP7	0-0.15	SP7/0-0.15	20/08/2015	11.6	-	<5	<5	-	-	-	<1	-	3	-	-	<5	-	<0.1	<2	-	-	<5	0.08	<0.05
SP8	0-0.15	SP8/0-0.15	20/08/2015	19.6	-	<5	<5	<10	<1	<50	<1	<0.5	4	-	<2	<5	20	<0.1	<2	<5	11	<5	0.05	<0.05
SP9	0-0.15	SP9/0-0.15	20/08/2015	21.9	-	<5	<5	-	-	-	<1	-	2	-	-	<5	-	<0.1	<2	-	-	<5	<0.05	<0.05
SP10	0-0.15	SP10/0-0.15	20/08/2015	17.5	-	<5	<5	-	-	-	<1	-	18	-	-	<5	-	<0.1	6	-	-	<5	<0.05	<0.05

				Organochlorine Pesticides																				
				Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	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
NEPM 2013 Table 1A(1) HILs Res A Soil					6		50						240		270				10				6	
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP01	0-0.15	VP01/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP02	0-0.15	VP02/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP03	0-0.15	VP03/0-0.15	21/07/2016	<0.05	0.09	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP04	0-0.15	VP04/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP05	0-0.15	VP05/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP06	0-0.15	QC02	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	QC03	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	VP06/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP07	0-0.15	VP07/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP08	0-0.15	VP08/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP09	0-0.15	VP09/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP10	0-0.15	VP10/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP11	0-0.15	VP11/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP12	0-0.15	VP12/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP13	0-0.15	VP13/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP14	0-0.15	VP14/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP15	0-0.15	VP15/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP16	0-0.15	VP16/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP17	0-0.15	VP17/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP18	0-0.15	VP18/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP19	0-0.15	VP19/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP20	0-0.15	VP20/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP21	0-0.15	VP21/0-0.15	21/07/2016	<0.05	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP22	0-0.15	VP22/0-0.15	21/07/2016	<0.05	0.12	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP23	0-0.15	VP23/0-0.15	21/07/2016	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.06	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP24	0-0.15	VP24/0-0.15	21/07/2016	<0.05	0.08	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP25	0-0.15	QC04	21/07/2016	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP25	0-0.15	QC05	21/07/2016	<0.05	-	<0.05	<0.1	-	-	<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
VP25	0-0.15	VP25/0-0.15	21/07/2016	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP26	0-0.15	VP26/0-0.15	21/07/2016	<0.05	0.06	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP27	0-0.15	VP27/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP28	0-0.15	VP28/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP29	0-0.15	VP29/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

				Organochlorine Pesticides																				
				Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	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
NEPM 2013 Table 1A(1) HILs Res A Soil					6		50						240		270				10				6	
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP30	0-0.15	VP30/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP31	0-0.15	VP31/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP32	0-0.15	VP32/0-0.15	21/07/2016	<0.05	0.08	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP33	0-0.15	VP33/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP34	0-0.15	VP34/0-0.15	21/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP35	0-0.15	VP35/0-0.15	21/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP36	0-0.15	VP36/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP37	0-0.15	VP37/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP38	0-0.15	VP38/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP39	0-0.15	VP39/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP40	0-0.15	QC13	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP40	0-0.15	QC14	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP40	0-0.15	VP40/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP41	0-0.15	VP41/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP42	0-0.15	VP42/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP43	0-0.15	VP43/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP44	0-0.15	VP44/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP45	0-0.15	VP45/0-0.15	22/07/2016	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP46	0-0.15	VP46/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP47	0-0.15	VP47/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP48	0-0.15	VP48/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP49	0-0.15	VP49/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP50	0-0.15	VP50/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VP51	0-0.15	VP51/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP52	0-0.15	VP52/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP53	0-0.15	VP53/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP54	0-0.15	VP54/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP55	0-0.15	VP55/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP56	0-0.15	VP56/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP57	0-0.15	VP57/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP58	0-0.15	VP58/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP59	0-0.15	VP59/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP60	0-0.15	VP60/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP61	0-0.15	VP61/0-0.15	22/07/2016	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<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
VP62	0-0.15	VP62/0-0.15	22/07/2016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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

	Organochlorine Pesticides																					
	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	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
NEPM 2013 Table 1A(1) HILs Res A Soil		6		50						240		270				10				6	

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																				
SP01	0-0.15	SP01/0-0.15	8/10/2015	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP02	0-0.15	SP02/0-0.15	8/10/2015	<0.05	0.08	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP03	0-0.15	SP03/0-0.15	8/10/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP04	0-0.15	SP04/0-0.15	8/10/2015	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP05	0-0.15	SP05/0-0.15	8/10/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP06	0-0.15	SP06/0-0.15	8/10/2015	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP07	0-0.15	SP07/0-0.15	8/10/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP08	0-0.15	SP08/0-0.15	8/10/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP09	0-0.15	SP09/0-0.15	8/10/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP10	0-0.15	SP10/0-0.15	8/10/2015	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP1	0-0.15	SP1/0-0.15	20/08/2015	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP2	0-0.15	SP2/0-0.15	20/08/2015	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP3	0-0.15	SP3/0-0.15	20/08/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP4	0-0.15	SP4/0-0.15	20/08/2015	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.08	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP5	0-0.15	SP5/0-0.15	20/08/2015	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP6	0-0.15	SP6/0-0.15	20/08/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP7	0-0.15	SP7/0-0.15	20/08/2015	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	0.08	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP8	0-0.15	SP8/0-0.15	20/08/2015	<0.05	0.07	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP9	0-0.15	SP9/0-0.15	20/08/2015	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SP10	0-0.15	SP10/0-0.15	20/08/2015	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

																					Organophosphorous Pesticides				
			Methoxychlor	Toxaphene	Azinophos methyl	Bolstar (Sulprofos)	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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				0.05	0.05	0.05		0.05				0.05
NEPM 2013 Table 1A(1) HILs Res A Soil			300	20						160													
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																				
VP01	0-0.15	VP01/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP02	0-0.15	VP02/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP03	0-0.15	VP03/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP04	0-0.15	VP04/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP05	0-0.15	VP05/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP06	0-0.15	QC02	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	QC03	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	VP06/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP07	0-0.15	VP07/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP08	0-0.15	VP08/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP09	0-0.15	VP09/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP10	0-0.15	VP10/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP11	0-0.15	VP11/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP12	0-0.15	VP12/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP13	0-0.15	VP13/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP14	0-0.15	VP14/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP15	0-0.15	VP15/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP16	0-0.15	VP16/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP17	0-0.15	VP17/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP18	0-0.15	VP18/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP19	0-0.15	VP19/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP20	0-0.15	VP20/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP21	0-0.15	VP21/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP22	0-0.15	VP22/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP23	0-0.15	VP23/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP24	0-0.15	VP24/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP25	0-0.15	QC04	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP25	0-0.15	QC05	21/07/2016	<0.05	<1	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
VP25	0-0.15	VP25/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP26	0-0.15	VP26/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP27	0-0.15	VP27/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP28	0-0.15	VP28/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP29	0-0.15	VP29/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05

																							Organophosphorous Pesticides			
			Methoxychlor	Toxaphene	Azinophos methyl	Bolstar (Sulprofos)	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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				0.05	0.05	0.05		0.05				0.05
NEPM 2013 Table 1A(1) HILs Res A Soil			300	20						160													
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																							
VP30	0-0.15	VP30/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP31	0-0.15	VP31/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP32	0-0.15	VP32/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP33	0-0.15	VP33/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP34	0-0.15	VP34/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP35	0-0.15	VP35/0-0.15	21/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP36	0-0.15	VP36/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP37	0-0.15	VP37/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP38	0-0.15	VP38/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP39	0-0.15	VP39/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP40	0-0.15	QC13	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP40	0-0.15	QC14	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP40	0-0.15	VP40/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP41	0-0.15	VP41/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP42	0-0.15	VP42/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP43	0-0.15	VP43/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP44	0-0.15	VP44/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP45	0-0.15	VP45/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP46	0-0.15	VP46/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP47	0-0.15	VP47/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP48	0-0.15	VP48/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP49	0-0.15	VP49/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP50	0-0.15	VP50/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP51	0-0.15	VP51/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP52	0-0.15	VP52/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP53	0-0.15	VP53/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP54	0-0.15	VP54/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP55	0-0.15	VP55/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP56	0-0.15	VP56/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP57	0-0.15	VP57/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP58	0-0.15	VP58/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP59	0-0.15	VP59/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP60	0-0.15	VP60/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP61	0-0.15	VP61/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
VP62	0-0.15	VP62/0-0.15	22/07/2016	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05

																					Organophosphorous Pesticides						
			Methoxychlor	Toxaphene	Azinophos methyl	Bolstar (Sulprofos)	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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				0.05	0.05	0.05		0.05				0.05
NEPM 2013 Table 1A(1) HILs Res A Soil			300	20						160													
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																				
SP01	0-0.15	SP01/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP02	0-0.15	SP02/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP03	0-0.15	SP03/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP04	0-0.15	SP04/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP05	0-0.15	SP05/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP06	0-0.15	SP06/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP07	0-0.15	SP07/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP08	0-0.15	SP08/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP09	0-0.15	SP09/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP10	0-0.15	SP10/0-0.15	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP1	0-0.15	SP1/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP2	0-0.15	SP2/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	0.06	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP3	0-0.15	SP3/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	0.06	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP4	0-0.15	SP4/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP5	0-0.15	SP5/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP6	0-0.15	SP6/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP7	0-0.15	SP7/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP8	0-0.15	SP8/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP9	0-0.15	SP9/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	0.07	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05
SP10	0-0.15	SP10/0-0.15	20/08/2015	<0.2	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	-	-	<0.05

																PAH							
				Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Prothiofos	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	Benzo[b+j]fluoranthene	2,4-dimethylphenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0.2		0.2				0.05						0.5	0.5	0.5	0.5	1	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																								
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP01	0-0.15	VP01/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP02	0-0.15	VP02/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP03	0-0.15	VP03/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP04	0-0.15	VP04/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP05	0-0.15	VP05/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	QC02	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP06	0-0.15	QC03	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP06	0-0.15	VP06/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP07	0-0.15	VP07/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP08	0-0.15	VP08/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP09	0-0.15	VP09/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP10	0-0.15	VP10/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP11	0-0.15	VP11/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP12	0-0.15	VP12/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP13	0-0.15	VP13/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP14	0-0.15	VP14/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP15	0-0.15	VP15/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP16	0-0.15	VP16/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP17	0-0.15	VP17/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP18	0-0.15	VP18/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP19	0-0.15	VP19/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP20	0-0.15	VP20/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP21	0-0.15	VP21/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP22	0-0.15	VP22/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP23	0-0.15	VP23/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP24	0-0.15	VP24/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP25	0-0.15	QC04	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP25	0-0.15	QC05	21/07/2016	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-
VP25	0-0.15	VP25/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP26	0-0.15	VP26/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP27	0-0.15	VP27/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP28	0-0.15	VP28/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP29	0-0.15	VP29/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-

																PAH							
				Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Prothiofos	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	Benzo[b+j]fluoranthene	2,4-dimethylphenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0.2		0.2				0.05						0.5	0.5	0.5	0.5	1	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																								
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP30	0-0.15	VP30/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP31	0-0.15	VP31/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP32	0-0.15	VP32/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP33	0-0.15	VP33/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP34	0-0.15	VP34/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP35	0-0.15	VP35/0-0.15	21/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP36	0-0.15	VP36/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP37	0-0.15	VP37/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP38	0-0.15	VP38/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP39	0-0.15	VP39/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP40	0-0.15	QC13	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP40	0-0.15	QC14	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP40	0-0.15	VP40/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP41	0-0.15	VP41/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP42	0-0.15	VP42/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP43	0-0.15	VP43/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP44	0-0.15	VP44/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5
VP45	0-0.15	VP45/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP46	0-0.15	VP46/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP47	0-0.15	VP47/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP48	0-0.15	VP48/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP49	0-0.15	VP49/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP50	0-0.15	VP50/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP51	0-0.15	VP51/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP52	0-0.15	VP52/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP53	0-0.15	VP53/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP54	0-0.15	VP54/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP55	0-0.15	VP55/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP56	0-0.15	VP56/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP57	0-0.15	VP57/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP58	0-0.15	VP58/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP59	0-0.15	VP59/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP60	0-0.15	VP60/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
VP61	0-0.15	VP61/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
VP62	0-0.15	VP62/0-0.15	22/07/2016	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-

																PAH							
				Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Prothiofos	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	Benzo[b+j]fluoranthene	2,4-dimethylphenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0.2		0.2				0.05						0.5	0.5	0.5	0.5	1	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res A Soil																								
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
SP01	0-0.15	SP01/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP02	0-0.15	SP02/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP03	0-0.15	SP03/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP04	0-0.15	SP04/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP05	0-0.15	SP05/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP06	0-0.15	SP06/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP07	0-0.15	SP07/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP08	0-0.15	SP08/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP09	0-0.15	SP09/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP1	0-0.15	SP1/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP2	0-0.15	SP2/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP3	0-0.15	SP3/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP4	0-0.15	SP4/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP5	0-0.15	SP5/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP6	0-0.15	SP6/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP7	0-0.15	SP7/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP8	0-0.15	SP8/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
SP9	0-0.15	SP9/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	20/08/2015	<0.05	-	<0.2	-	<0.2	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-

				PAH/Phenols																		Pesticide			
				Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Carcinogenic PAHs as B(a)P TPE	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Pyrene	Bifenthrin	Demeton-S-methyl	Fenamiphos	Mirex
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil									3								300		3000		600			10
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP01	0-0.15	VP01/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP02	0-0.15	VP02/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP03	0-0.15	VP03/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP04	0-0.15	VP04/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP05	0-0.15	VP05/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP06	0-0.15	QC02	21/07/2016	<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	-	-	-	-
VP06	0-0.15	QC03	21/07/2016	<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	-	-	-	-
VP06	0-0.15	VP06/0-0.15	21/07/2016	<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	-	-	-	-
VP07	0-0.15	VP07/0-0.15	21/07/2016	<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	-	-	-	-
VP08	0-0.15	VP08/0-0.15	21/07/2016	<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	-	-	-	-
VP09	0-0.15	VP09/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP10	0-0.15	VP10/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP11	0-0.15	VP11/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP12	0-0.15	VP12/0-0.15	21/07/2016	<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	-	-	-	-
VP13	0-0.15	VP13/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP14	0-0.15	VP14/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP15	0-0.15	VP15/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP16	0-0.15	VP16/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP17	0-0.15	VP17/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP18	0-0.15	VP18/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP19	0-0.15	VP19/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP20	0-0.15	VP20/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP21	0-0.15	VP21/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP22	0-0.15	VP22/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP23	0-0.15	VP23/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP24	0-0.15	VP24/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP25	0-0.15	QC04	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP25	0-0.15	QC05	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VP25	0-0.15	VP25/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP26	0-0.15	VP26/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP27	0-0.15	VP27/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP28	0-0.15	VP28/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP29	0-0.15	VP29/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-

				PAH/Phenols																	Pesticide			
				Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Carcinogenic PAHs as B(a)P TPE	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Pyrene	Bifenthrin	Demeton-S-methyl	Fenamiphos	Mirex
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil									3								300		3000		600			10
LocCode	**Sample_Depth_Range**	**Field_ID**	**Sampled_Date-Time**																					
VP30	0-0.15	VP30/0-0.15	21/07/2016	<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	-	-	-	-
VP31	0-0.15	VP31/0-0.15	21/07/2016	<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	-	-	-	-
VP32	0-0.15	VP32/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP33	0-0.15	VP33/0-0.15	21/07/2016	<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	-	-	-	-
VP34	0-0.15	VP34/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP35	0-0.15	VP35/0-0.15	21/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP36	0-0.15	VP36/0-0.15	22/07/2016	<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	-	-	-	-
VP37	0-0.15	VP37/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.2
VP38	0-0.15	VP38/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP39	0-0.15	VP39/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP40	0-0.15	QC13	22/07/2016	<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	-	-	-	-
VP40	0-0.15	QC14	22/07/2016	<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	-	-	-	-
VP40	0-0.15	VP40/0-0.15	22/07/2016	<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	-	-	-	-
VP41	0-0.15	VP41/0-0.15	22/07/2016	<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	-	-	-	-
VP42	0-0.15	VP42/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP43	0-0.15	VP43/0-0.15	22/07/2016	<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	-	-	-	-
VP44	0-0.15	VP44/0-0.15	22/07/2016	<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	-	-	-	-
VP45	0-0.15	VP45/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP46	0-0.15	VP46/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP47	0-0.15	VP47/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP48	0-0.15	VP48/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP49	0-0.15	VP49/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP50	0-0.15	VP50/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP51	0-0.15	VP51/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP52	0-0.15	VP52/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP53	0-0.15	VP53/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP54	0-0.15	VP54/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP55	0-0.15	VP55/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP56	0-0.15	VP56/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP57	0-0.15	VP57/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP58	0-0.15	VP58/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP59	0-0.15	VP59/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP60	0-0.15	VP60/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
VP61	0-0.15	VP61/0-0.15	22/07/2016	<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	<0.05	<0.05	<0.05	<0.2
VP62	0-0.15	VP62/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-

	PAH/Phenols																	Pesticide			
	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Carcinogenic PAHs as B(a)P TPE	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Phenol	Pyrene	Bifenthrin	Demeton-S-methyl	Fenamiphos	Mirex
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Res A Soil						3								300		3000		600			10

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																			
SP01	0-0.15	SP01/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP02	0-0.15	SP02/0-0.15	8/10/2015	<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	<0.05	<0.05	<0.05	<0.2
SP03	0-0.15	SP03/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP04	0-0.15	SP04/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP05	0-0.15	SP05/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP06	0-0.15	SP06/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP07	0-0.15	SP07/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP08	0-0.15	SP08/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP09	0-0.15	SP09/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP10	0-0.15	SP10/0-0.15	8/10/2015	<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	<0.05	<0.05	<0.05	<0.2
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<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	<0.05	<0.05	<0.05	<0.2
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<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	<0.05	<0.05	<0.05	<0.2
SP1	0-0.15	SP1/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP2	0-0.15	SP2/0-0.15	20/08/2015	<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	<0.05	<0.05	<0.05	<0.2
SP3	0-0.15	SP3/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP4	0-0.15	SP4/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP5	0-0.15	SP5/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP6	0-0.15	SP6/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP7	0-0.15	SP7/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP8	0-0.15	SP8/0-0.15	20/08/2015	<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	<0.05	<0.05	<0.05	<0.2
SP9	0-0.15	SP9/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-
SP10	0-0.15	SP10/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-

	s			Polychlorinated Biphenyls	SVOCs	TPH										
	Parathion	Pirimiphos-methyl	Pirimphos-ethyl	PCBs (Sum of total)	EPN	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C6-C10
	mg/kg	mg/kg	mg/kg	mg/kg	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		0.05	0.1		50	100	100	50	10	20	50	50	50	50	10
NEPM 2013 Table 1A(1) HILs Res A Soil				1												

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																
VP01	0-0.15	VP01/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP02	0-0.15	VP02/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP03	0-0.15	VP03/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP04	0-0.15	VP04/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP05	0-0.15	VP05/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP06	0-0.15	QC02	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP06	0-0.15	QC03	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<20	<20	<50	<50	<50	-	<20
VP06	0-0.15	VP06/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP07	0-0.15	VP07/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP08	0-0.15	VP08/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP09	0-0.15	VP09/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP10	0-0.15	VP10/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP11	0-0.15	VP11/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP12	0-0.15	VP12/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP13	0-0.15	VP13/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP14	0-0.15	VP14/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP15	0-0.15	VP15/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP16	0-0.15	VP16/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP17	0-0.15	VP17/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP18	0-0.15	VP18/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP19	0-0.15	VP19/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP20	0-0.15	VP20/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP21	0-0.15	VP21/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP22	0-0.15	VP22/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP23	0-0.15	VP23/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP24	0-0.15	VP24/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP25	0-0.15	QC04	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP25	0-0.15	QC05	21/07/2016	<0.2	<0.2	-	-	<0.2	-	-	-	-	-	-	-	-	-	-	-
VP25	0-0.15	VP25/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP26	0-0.15	VP26/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP27	0-0.15	VP27/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP28	0-0.15	VP28/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP29	0-0.15	VP29/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

	s			Polychlorinated Biphenyls	SVOCs	TPH										
	Parathion	Pirimiphos-methyl	Pirimphos-ethyl	PCBs (Sum of total)	EPN	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C6-C10
	mg/kg	mg/kg	mg/kg	mg/kg	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		0.05	0.1		50	100	100	50	10	20	50	50	50	50	10
NEPM 2013 Table 1A(1) HILs Res A Soil				1												

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time																	
VP30	0-0.15	VP30/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP31	0-0.15	VP31/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP32	0-0.15	VP32/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP33	0-0.15	VP33/0-0.15	21/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP34	0-0.15	VP34/0-0.15	21/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP35	0-0.15	VP35/0-0.15	21/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP36	0-0.15	VP36/0-0.15	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP37	0-0.15	VP37/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP38	0-0.15	VP38/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP39	0-0.15	VP39/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP40	0-0.15	QC13	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP40	0-0.15	QC14	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<20	<20	<50	<50	<50	-	<20
VP40	0-0.15	VP40/0-0.15	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP41	0-0.15	VP41/0-0.15	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP42	0-0.15	VP42/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP43	0-0.15	VP43/0-0.15	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP44	0-0.15	VP44/0-0.15	22/07/2016	-	-	-	-	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP45	0-0.15	VP45/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP46	0-0.15	VP46/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP47	0-0.15	VP47/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP48	0-0.15	VP48/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP49	0-0.15	VP49/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP50	0-0.15	VP50/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP51	0-0.15	VP51/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP52	0-0.15	VP52/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP53	0-0.15	VP53/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	130	<100	<50	<10	<50	<100	<100	<50	130	<10
VP54	0-0.15	VP54/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP55	0-0.15	VP55/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP56	0-0.15	VP56/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP57	0-0.15	VP57/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	130	<100	<50	<10	<50	<100	<100	<50	130	<10
VP58	0-0.15	VP58/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP59	0-0.15	VP59/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP60	0-0.15	VP60/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
VP61	0-0.15	VP61/0-0.15	22/07/2016	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
VP62	0-0.15	VP62/0-0.15	22/07/2016	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

	s			Polychlorinated Biphenyls	SVOCs	TPH										
	Parathion	Pirimiphos-methyl	Pirimphos-ethyl	PCBs (Sum of total)	EPN	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C6-C10
	mg/kg	mg/kg	mg/kg	mg/kg	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		0.05	0.1		50	100	100	50	10	20	50	50	50	50	10
NEPM 2013 Table 1A(1) HILs Res A Soil				1												

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time															
SP01	0-0.15	SP01/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
SP02	0-0.15	SP02/0-0.15	8/10/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP03	0-0.15	SP03/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP04	0-0.15	SP04/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP05	0-0.15	SP05/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP06	0-0.15	SP06/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP07	0-0.15	SP07/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP08	0-0.15	SP08/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP09	0-0.15	SP09/0-0.15	8/10/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	8/10/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP1	0-0.15	SP1/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP2	0-0.15	SP2/0-0.15	20/08/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP3	0-0.15	SP3/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP4	0-0.15	SP4/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP5	0-0.15	SP5/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP6	0-0.15	SP6/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP7	0-0.15	SP7/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP8	0-0.15	SP8/0-0.15	20/08/2015	<0.2	-	<0.05	<0.1	-	<50	<100	<100	<50	<10	<50	<100	<100	<50	<50	<10
SP9	0-0.15	SP9/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	20/08/2015	<0.2	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

	Benzene	Ethylbenzene	Toluene	Xylene Total	Benzo(a) pyrene	C10-C16	C16-C34	C34-C40	C6-C10
	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	0.3	0.5	50	100	100	10
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									
0-2m	50	70	85	105	0.7	120	300	2800	180

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time								
VP01	0-0.15	VP01/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP02	0-0.15	VP02/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP03	0-0.15	VP03/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP04	0-0.15	VP04/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP05	0-0.15	VP05/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP06	0-0.15	QC02	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP06	0-0.15	QC03	21/07/2016	<0.1	<0.1	<0.1	<0.3	<0.5	<50	<100	<100	<20
VP06	0-0.15	VP06/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP07	0-0.15	VP07/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP08	0-0.15	VP08/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP09	0-0.15	VP09/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP10	0-0.15	VP10/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP11	0-0.15	VP11/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP12	0-0.15	VP12/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP13	0-0.15	VP13/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP14	0-0.15	VP14/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP15	0-0.15	VP15/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP16	0-0.15	VP16/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP17	0-0.15	VP17/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP18	0-0.15	VP18/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP19	0-0.15	VP19/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP20	0-0.15	VP20/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP21	0-0.15	VP21/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP22	0-0.15	VP22/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP23	0-0.15	VP23/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP24	0-0.15	VP24/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP25	0-0.15	QC04	21/07/2016	-	-	-	-	-	-	-	-	-
VP25	0-0.15	QC05	21/07/2016	-	-	-	-	-	-	-	-	-
VP25	0-0.15	VP25/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP26	0-0.15	VP26/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP27	0-0.15	VP27/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP28	0-0.15	VP28/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP29	0-0.15	VP29/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP30	0-0.15	VP30/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP31	0-0.15	VP31/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10

	Benzene	Ethylbenzene	Toluene	Xylene Total	Benzo(a) pyrene	C10-C16	C16-C34	C34-C40	C6-C10
	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	0.3	0.5	50	100	100	10
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									
0-2m	50	70	85	105	0.7	120	300	2800	180

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time									
VP32	0-0.15	VP32/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP33	0-0.15	VP33/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP34	0-0.15	VP34/0-0.15	21/07/2016	-	-	-	-	-	-	-	-	-
VP35	0-0.15	VP35/0-0.15	21/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP36	0-0.15	VP36/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP37	0-0.15	VP37/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP38	0-0.15	VP38/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP39	0-0.15	VP39/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP40	0-0.15	QC13	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP40	0-0.15	QC14	22/07/2016	<0.1	<0.1	<0.1	<0.3	<0.5	<50	<100	<100	<20
VP40	0-0.15	VP40/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP41	0-0.15	VP41/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP42	0-0.15	VP42/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP43	0-0.15	VP43/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP44	0-0.15	VP44/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP45	0-0.15	VP45/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP46	0-0.15	VP46/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP47	0-0.15	VP47/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP48	0-0.15	VP48/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP49	0-0.15	VP49/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP50	0-0.15	VP50/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP51	0-0.15	VP51/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP52	0-0.15	VP52/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP53	0-0.15	VP53/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	130	<100	<10
VP54	0-0.15	VP54/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP55	0-0.15	VP55/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP56	0-0.15	VP56/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP57	0-0.15	VP57/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	130	<100	<10
VP58	0-0.15	VP58/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP59	0-0.15	VP59/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP60	0-0.15	VP60/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
VP61	0-0.15	VP61/0-0.15	22/07/2016	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
VP62	0-0.15	VP62/0-0.15	22/07/2016	-	-	-	-	-	-	-	-	-
SP01	0-0.15	SP01/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP02	0-0.15	SP02/0-0.15	8/10/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP03	0-0.15	SP03/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP04	0-0.15	SP04/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-

	Benzene	Ethylbenzene	Toluene	Xylene Total	Benzo(a) pyrene	C10-C16	C16-C34	C34-C40	C6-C10
	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	0.3	0.5	50	100	100	10
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil									
0-2m	50	70	85	105	0.7	120	300	2800	180

LocCode	Sample_Depth_Range	Field_ID	Sampled_Date-Time									
SP05	0-0.15	SP05/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP06	0-0.15	SP06/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP07	0-0.15	SP07/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP08	0-0.15	SP08/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP09	0-0.15	SP09/0-0.15	8/10/2015	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	8/10/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP11	0.35-0.5	SP11/0.35-0.5	8/10/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP12	0.35-0.5	SP12/0.35-0.5	8/10/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP1	0-0.15	SP1/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP2	0-0.15	SP2/0-0.15	20/08/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP3	0-0.15	SP3/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP4	0-0.15	SP4/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP5	0-0.15	SP5/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP6	0-0.15	SP6/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP7	0-0.15	SP7/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP8	0-0.15	SP8/0-0.15	20/08/2015	<0.2	<0.5	<0.5	<0.5	<0.5	<50	<100	<100	<10
SP9	0-0.15	SP9/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-
SP10	0-0.15	SP10/0-0.15	20/08/2015	-	-	-	-	-	-	-	-	-

Field Blanks (WATER) Filter: SDG in('ALSE-Melbourne 22-Jul-16')		SDG Field ID Sampled_Date/Time Sample Type	ALSE-Melbourne 22-Jul-16 QC01 21/07/2016 9:00 Field_B	ALSE-Melbourne 22-Jul-16 QC12 22/07/2016 8:30 Field_B	ALSE-Melbourne 22-Jul-16 QC11 21/07/2016 15:00 Rinsate	ALSE-Melbourne 22-Jul-16 QC18 22/07/2016 15:00 Rinsate	ALSE-Melbourne 22-Jul-16 QC06 21/07/2016 15:00 Trip_B	ALSE-Melbourne 22-Jul-16 QC07 21/07/2016 15:00 Trip_B	ALSE-Melbourne 22-Jul-16 QC08 21/07/2016 15:00 Trip_B	ALSE-Melbourne 22-Jul-16 QC09 21/07/2016 15:00 Trip_B
Chem_Group	**ChemName**	**Units**	**EQL**							
BTEX	Benzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Ethylbenzene	µg/L	1	<2	<2	<2	<2	<2	<2	<2	<2
	Toluene	µg/L	1	<2	<2	<2	<2	<2	<2	<2	<2
	Total BTEX	mg/l	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Xylene (m & p)	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
	Xylene (o)	µg/L	1	<2	<2	<2	<2	<2	<2	<2	<2
	Xylene Total	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
	C6-C10 less BTEX (F1)	mg/l	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Halogenated Benzenes	Hexachlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
Lead	Lead	mg/l	0.001	<0.001	<0.001	<0.001	<0.001				
Metals	Arsenic	mg/l	0.001	<0.001	<0.001	<0.001	<0.001				
	Barium	mg/l	0.001	<0.001	**0.022**	<0.001	**0.019**				
	Beryllium	mg/l	0.001	<0.001	<0.001	<0.001	<0.001				
	Boron	mg/l	0.05	<0.05	<0.05	<0.05	<0.05				
	Cadmium	mg/l	0.0001	<0.0001	<0.0001	<0.0001	<0.0001				
	Chromium (III+VI)	mg/l	0.001	<0.001	<0.001	<0.001	<0.001				
	Cobalt	mg/l	0.001	<0.001	<0.001	<0.001	<0.001				
	Copper	mg/l	0.001	<0.001	**0.002**	<0.001	**0.001**				
	Manganese	mg/l	0.001	<0.001	**0.008**	<0.001	**0.01**				
	Mercury	mg/l	0.0001	<0.0001	<0.0001	<0.0001	<0.0001				
	Nickel	mg/l	0.001	<0.001	**0.003**	<0.001	**0.003**				
	Selenium	mg/l	0.01	<0.01	<0.01	<0.01	<0.01				
	Vanadium	mg/l	0.01	<0.01	<0.01	<0.01	<0.01				
	Zinc	mg/l	0.005	<0.005	**0.005**	<0.005	<0.005				
Organochlorine Pesticides	4,4-DDE	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	a-BHC	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Aldrin	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Aldrin + Dieldrin	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	b-BHC	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	chlordane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Chlordane (cis)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Chlordane (trans)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	d-BHC	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	DDD	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	DDT	µg/L	2	<2	<2	<2	<2				
	DDT+DDE+DDD	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Dieldrin	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endosulfan I	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endosulfan II	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endosulfan sulphate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endrin	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endrin aldehyde	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Endrin ketone	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	g-BHC (Lindane)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Heptachlor	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Heptachlor epoxide	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Methoxychlor	µg/L	2	<2	<2	<2	<2				
Organophosphorous Pesticides	Azinophos methyl	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Bromophos-ethyl	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Carbophenothion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Chlorfenvinphos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Chlorpyrifos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Chlorpyrifos-methyl	mg/l	0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
	Diazinon	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Ethion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Fenthion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Malathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Methyl parathion	µg/L	2	<2	<2	<2	<2				
	Monocrotophos	µg/L	2	<2	<2	<2	<2				
	Prothiofos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
PAH/Phenols	Naphthalene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
Pesticides	Demeton-S-methyl	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Fenamiphos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
	Parathion	µg/L	2	<2	<2	<2	<2				
	Pirimphos-ethyl	µg/L	0.5	<0.5	<0.5	<0.5	<0.5				
TPH	C10-C16	mg/l	0.1	<0.1	<0.1	<0.1	<0.1				
	C16-C34	mg/l	0.1	<0.1	<0.1	<0.1	<0.1				
	C34-C40	mg/l	0.1	<0.1	<0.1	<0.1	<0.1				
	F2-NAPHTHALENE	mg/l	0.1	<0.1	<0.1	<0.1	<0.1				
	C6 - C9	µg/L	20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	µg/L	50	<50	<50	<50	<50				
	C15 - C28	µg/L	100	<100	<100	<100	<100				
	C29-C36	µg/L	50	<50	<50	<50	<50				
	+C10 - C36 (Sum of total)	µg/L	50	<50	<50	<50	<50				
	C10 - C40 (Sum of total)	µg/L	100	<100	<100	<100	<100				
	C6-C10	mg/l	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Field Blanks (WATER) Filter: SDG in('ALSE-Melbourne 22-Jul-16')			**SDG** **Field ID** **Sampled_Date/Time** **Sample Type**	ALSE-Melbourne 22-Jul-16 QC15 22/07/2016 15:00 Trip_B	ALSE-Melbourne 22-Jul-16 QC16 22/07/2016 15:00 Trip_B	ALSE-Melbourne 22-Jul-16 QC17 22/07/2016 15:00 Trip_B	MGT QC10 21/07/2016 Trip_B
Chem_Group	**ChemName**	**Units**	**EQL**				
BTEX	Benzene	µg/L	1	<1	<1	<1	<1
	Ethylbenzene	µg/L	1	<2	<2	<2	<1
	Toluene	µg/L	1	<2	<2	<2	<1
	Total BTEX	mg/l	0.001	<0.001	<0.001	<0.001	
	Xylene (m & p)	µg/L	2	<2	<2	<2	<2
	Xylene (o)	µg/L	1	<2	<2	<2	<1
	Xylene Total	µg/L	2	<2	<2	<2	<3
	C6-C10 less BTEX (F1)	mg/l	0.02	<0.02	<0.02	<0.02	<0.02
Halogenated Benzenes	Hexachlorobenzene	µg/L	0.5				
Lead	Lead	mg/l	0.001				
Metals	Arsenic	mg/l	0.001				
	Barium	mg/l	0.001				
	Beryllium	mg/l	0.001				
	Boron	mg/l	0.05				
	Cadmium	mg/l	0.0001				
	Chromium (III+VI)	mg/l	0.001				
	Cobalt	mg/l	0.001				
	Copper	mg/l	0.001				
	Manganese	mg/l	0.001				
	Mercury	mg/l	0.0001				
	Nickel	mg/l	0.001				
	Selenium	mg/l	0.01				
	Vanadium	mg/l	0.01				
	Zinc	mg/l	0.005				
Organochlorine Pesticides	4,4-DDE	µg/L	0.5				
	a-BHC	µg/L	0.5				
	Aldrin	µg/L	0.5				
	Aldrin + Dieldrin	µg/L	0.5				
	b-BHC	µg/L	0.5				
	chlordane	µg/L	0.5				
	Chlordane (cis)	µg/L	0.5				
	Chlordane (trans)	µg/L	0.5				
	d-BHC	µg/L	0.5				
	DDD	µg/L	0.5				
	DDT	µg/L	2				
	DDT+DDE+DDD	µg/L	0.5				
	Dieldrin	µg/L	0.5				
	Endosulfan I	µg/L	0.5				
	Endosulfan II	µg/L	0.5				
	Endosulfan sulphate	µg/L	0.5				
	Endrin	µg/L	0.5				
	Endrin aldehyde	µg/L	0.5				
	Endrin ketone	µg/L	0.5				
	g-BHC (Lindane)	µg/L	0.5				
	Heptachlor	µg/L	0.5				
	Heptachlor epoxide	µg/L	0.5				
	Methoxychlor	µg/L	2				
Organophosphorous Pesticides	Azinophos methyl	µg/L	0.5				
	Bromophos-ethyl	µg/L	0.5				
	Carbophenothion	µg/L	0.5				
	Chlorfenvinphos	µg/L	0.5				
	Chlorpyrifos	µg/L	0.5				
	Chlorpyrifos-methyl	mg/l	0.0005				
	Diazinon	µg/L	0.5				
	Dichlorvos	µg/L	0.5				
	Dimethoate	µg/L	0.5				
	Ethion	µg/L	0.5				
	Fenthion	µg/L	0.5				
	Malathion	µg/L	0.5				
	Methyl parathion	µg/L	2				
	Monocrotophos	µg/L	2				
	Prothiofos	µg/L	0.5				
PAH/Phenols	Naphthalene	µg/L	5	<5	<5	<5	<10
Pesticides	Demeton-S-methyl	µg/L	0.5				
	Fenamiphos	µg/L	0.5				
	Parathion	µg/L	2				
	Pirimphos-ethyl	µg/L	0.5				
TPH	C10-C16	mg/l	0.1				
	C16-C34	mg/l	0.1				
	C34-C40	mg/l	0.1				
	F2-NAPHTHALENE	mg/l	0.1				
	C6 - C9	µg/L	20	<20	<20	<20	<20
	C10 - C14	µg/L	50				
	C15 - C28	µg/L	100				
	C29-C36	µg/L	50				
	+C10 - C36 (Sum of total)	µg/L	50				
	C10 - C40 (Sum of total)	µg/L	100				
	C6-C10	mg/l	0.02	<0.02	<0.02	<0.02	<0.02

Field Duplicates (SOIL)
Filter: SDG in('ALSE-Melbourne 22-Jul-16",

			SDG	ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16		Interlab_D			ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16			Interlab_D		ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16			Interlab_D	
			Field ID	VP06/0-0.15	QC02	**RPD**	QC03	**RPD**		VP25/0-0.15	QC04	**RPD**		QC05	**RPD**	VP40/0-0.15	QC13	**RPD**		QC14	**RPD**	
			Sampled Date/Time	21/07/2016 12:15	21/07/2016 12:15		21/07/2016 12:15			21/07/2016 15:00	21/07/2016 15:00			21/07/2016 15:00		22/07/2016 9:50	22/07/2016 9:50			22/07/2016 9:50		
Chem_Group	**ChemName**	**Units**	**EQL**																				
BTEX	Benzene	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.2	0	<0.1	0								<0.2	<0.2	0		<0.1	0		
	Ethylbenzene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.1	0								<0.5	<0.5	0		<0.1	0		
	Toluene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.1	0								<0.5	<0.5	0		<0.1	0		
	Total BTEX	mg/kg	0.2	<0.2	<0.2	0										<0.2	<0.2	0					
	Xylene (m & p)	mg/kg	0.5 (Primary): 0.2 (Interlab)	<0.5	<0.5	0	<0.2	0								<0.5	<0.5	0		<0.2	0		
	Xylene (o)	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	0	<0.1	0								<0.5	<0.5	0		<0.1	0		
	Xylene Total	mg/kg	0.5 (Primary): 0.3 (Interlab)	<0.5	<0.5	0	<0.3	0								<0.5	<0.5	0		<0.3	0		
	C6-C10 less BTEX (F1)	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<10.0	0	<20.0	0								<10.0	<10.0	0		<20.0	0		
Halogenated Be	Hexachlorobenzene	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
:d Benzenes																							
Inorganics	Moisture	%	1	13.7	14.7	7				14.3	12.4	14				10.6	10.0	6					
Lead	Lead	mg/kg	5	159.0	120.0	28	**97.0**	**48**		8.0	<5.0	46		<5.0	46	5.0	8.0	46		<5.0	0		
Metals	Arsenic	mg/kg	5 (Primary): 2 (Interlab)	6.0	6.0	0	**2.4**	**86**		<5.0	<5.0	0		3.5	0	<5.0	<5.0	0		2.2	0		
	Barium	mg/kg	10							<10.0	<10.0	0		<10.0	0								
	Beryllium	mg/kg	1 (Primary): 2 (Interlab)							<1.0	<1.0	0		<2.0	0								
	Boron	mg/kg	50 (Primary): 10 (Interlab)							<50.0	<50.0	0		<10.0	0								
	Cadmium	mg/kg	1 (Primary): 0.4 (Interlab)	<1.0	<1.0	0	0.5	0		<1.0	<1.0	0		<0.4	0	<1.0	<1.0	0		<0.4	0		
	Chromium (III+VI)	mg/kg	2 (Primary): 5 (Interlab)	9.0	11.0	20	8.8	2		5.0	3.0	50		<5.0	0	<2.0	<2.0	0		<5.0	0		
	Cobalt	mg/kg	2 (Primary): 5 (Interlab)							<2.0	<2.0	0		<5.0	0								
	Copper	mg/kg	5	8.0	9.0	12	8.5	6		<5.0	<5.0	0		<5.0	0	<5.0	<5.0	0		<5.0	0		
	Manganese	mg/kg	5							**7.0**	**21.0**	**100**		**21.0**	**100**								
	Mercury	mg/kg	0.1	0.4	0.3	29	**<0.1**	**120**		<0.1	<0.1	0		<0.1	0	<0.1	<0.1	0		<0.1	0		
	Nickel	mg/kg	2 (Primary): 5 (Interlab)	3.0	3.0	0	<5.0	0		<2.0	<2.0	0		<5.0	0	2.0	<2.0	0		<5.0	0		
	Selenium	mg/kg	5							<5.0	<5.0	0											
	Vanadium	mg/kg	5 (Primary): 10 (Interlab)							20.0	14.0	35		12.0	50								
	Zinc	mg/kg	5	153.0	145.0	5	120.0	24		<5.0	8.0	46		6.7	29	13.0	24.0	59		12.0	8		
Organochlorine	4,4-DDE	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	a-BHC	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Aldrin	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Aldrin + Dieldrin	mg/kg	0.05							0.11	0.12	9											
	b-BHC	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	chlordane	mg/kg	0.05 (Primary): 0.1 (Interlab)							<0.05	<0.05	0		<0.1	0								
	Chlordane (cis)	mg/kg	0.05							<0.05	<0.05	0											
	Chlordane (trans)	mg/kg	0.05							<0.05	<0.05	0											
	d-BHC	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	DDD	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	DDT	mg/kg	0.2 (Primary): 0.05 (Interlab)							<0.2	<0.2	0		<0.05	0								
	DDT+DDE+DDD	mg/kg	0.05							<0.05	<0.05	0											
	Dieldrin	mg/kg	0.05							0.11	0.12	9		0.1	10								
	Endosulfan	mg/kg	0.05							<0.05	<0.05	0											
	Endosulfan I	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Endosulfan II	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Endosulfan sulphate	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Endrin	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Endrin aldehyde	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Endrin ketone	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	g-BHC (Lindane)	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Heptachlor	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Heptachlor epoxide	mg/kg	0.05							<0.05	<0.05	0		<0.05	0								
	Methoxychlor	mg/kg	0.2 (Primary): 0.05 (Interlab)							<0.2	<0.2	0		<0.05	0								
ɔrine Pesticides																							
Organophospho	Azinophos methyl	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Bromophos-ethyl	mg/kg	0.05							<0.05	<0.05	0											
	Carbophenothion	mg/kg	0.05							<0.05	<0.05	0											
	Chlorfenvinphos	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Chlorpyrifos	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Chlorpyrifos-methyl	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Diazinon	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Dichlorvos	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Dimethoate	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Ethion	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Fenthion	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Malathion	mg/kg	0.05 (Primary): 0.2 (Interlab)							<0.05	<0.05	0		<0.2	0								
	Methyl parathion	mg/kg	0.2							<0.2	<0.2	0		<0.2	0								
	Monocrotophos	mg/kg	0.2 (Primary): 2 (Interlab)							<0.2	<0.2	0		<2.0	0								
	Prothiofos	mg/kg	0.05							<0.05	<0.05	0											
sphorous Pesticides																							
PAH	Benzo[b+j]fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
PAH/Phenols	Acenaphthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Benzo(a) pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Carcinogenic PAHs as B(	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Chrysene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Fluoranthene	mg/kg	0.5	0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Fluorene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Naphthalene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<0.5	0								<1.0	<1.0	0		<0.5	0		
	Naphthalene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	PAHs (Sum of total)	mg/kg	0.5	0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Phenanthrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
	Pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	0								<0.5	<0.5	0		<0.5	0		
ɔls																							
Pesticides	Demeton-S-methyl	mg/kg	0.05							<0.05	<0.05	0											
	Fenamiphos	mg/kg	0.05							<0.05	<0.05	0											
	Parathion	mg/kg	0.2							<0.2	<0.2	0		<0.2	0								
	Pirimphos-ethyl	mg/kg	0.05							<0.05	<0.05	0											
TPH	C10-C16	mg/kg	50	<50.0	<50.0	0	<50.0	0								<50.0	<50.0	0		<50.0	0		
	C16-C34	mg/kg	100	<100.0	<100.0	0	<100.0	0								<100.0	<100.0	0		<100.0	0		
	C34-C40	mg/kg	100	<100.0	<100.0	0	<100.0	0								<100.0	<100.0	0		<100.0	0		

Field Duplicates (SOIL)
Filter: SDG in('ALSE-Melbourne 22-Jul-16",

			SDG	ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16		Interlab_D		ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16		Interlab_D		ALSE-Melbourne 22-Jul-16	ALSE-Melbourne 22-Jul-16		Interlab_D	
			Field ID	VP06/0-0.15	QC02	**RPD**	QC03	**RPD**	VP25/0-0.15	QC04	**RPD**	QC05	**RPD**	VP40/0-0.15	QC13	**RPD**	QC14	**RPD**
			Sampled Date/Time	21/07/2016 12:15	21/07/2016 12:15		21/07/2016 12:15		21/07/2016 15:00	21/07/2016 15:00		21/07/2016 15:00		22/07/2016 9:50	22/07/2016 9:50		22/07/2016 9:50	
	F2-NAPHTHALENE	mg/kg	50	<50.0	<50.0	0	<50.0	0						<50.0	<50.0	0	<50.0	0
	C6 - C9	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<10.0	0	<20.0	0						<10.0	<10.0	0	<20.0	0
	C10 - C14	mg/kg	50 (Primary): 20 (Interlab)	<50.0	<50.0	0	<20.0	0						<50.0	<50.0	0	<20.0	0
	C15 - C28	mg/kg	100 (Primary): 50 (Interlab)	<100.0	<100.0	0	<50.0	0						<100.0	<100.0	0	<50.0	0
	C29-C36	mg/kg	100 (Primary): 50 (Interlab)	<100.0	<100.0	0	<50.0	0						<100.0	<100.0	0	<50.0	0
	+C10 - C36 (Sum of total)	mg/kg	50	<50.0	<50.0	0	<50.0	0						<50.0	<50.0	0	<50.0	0
	C10 - C40 (Sum of total)	mg/kg	50	<50.0	<50.0	0								<50.0	<50.0	0		
	C6-C10	mg/kg	10 (Primary): 20 (Interlab)	<10.0	<10.0	0	<20.0	0						<10.0	<10.0	0	<20.0	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	03-Aug-16 7:56:04 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	90	Number of Distinct Observations	29
Number of Detects	57	Number of Non-Detects	33
Number of Distinct Detects	29	Number of Distinct Non-Detects	1
Minimum Detect	5	Minimum Non-Detect	5
Maximum Detect	302	Maximum Non-Detect	5
Variance Detects	2140	Percent Non-Detects	36.67%
Mean Detects	27.91	SD Detects	46.26
Median Detects	17	CV Detects	1.657
Skewness Detects	4.451	Kurtosis Detects	23.05
Mean of Logged Detects	2.8	SD of Logged Detects	0.89

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.481	**Normal GOF Test on Detected Observations Only**
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.333	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.117	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	19.51	Standard Error of Mean	4.054
SD	38.12	95% KM (BCA) UCL	27.3
95% KM (t) UCL	26.25	95% KM (Percentile Bootstrap) UCL	26.86
95% KM (z) UCL	26.18	95% KM Bootstrap t UCL	32.33
90% KM Chebyshev UCL	31.67	95% KM Chebyshev UCL	37.18
97.5% KM Chebyshev UCL	44.83	99% KM Chebyshev UCL	59.85

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.619	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.778	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.205	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.121	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.081	k star (bias corrected MLE)	1.036
Theta hat (MLE)	25.82	Theta star (bias corrected MLE)	26.95
nu hat (MLE)	123.2	nu star (bias corrected)	118.1
MLE Mean (bias corrected)	27.91	MLE Sd (bias corrected)	27.43

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.262	nu hat (KM)	47.15
Approximate Chi Square Value (47.15, α)	32.39	Adjusted Chi Square Value (47.15, β)	32.19
95% Gamma Approximate KM-UCL (use when n>=50)	28.4	95% Gamma Adjusted KM-UCL (use when n<50)	28.58

56											
57	**Gamma ROS Statistics using Imputed Non-Detects**										
58	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs										
59	GROS may not be used when kstar of detected data is small such as < 0.1										
60	For such situations, GROS method tends to yield inflated values of UCLs and BTVs										
61	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates										
62				Minimum	0.01			Mean	17.68		
63				Maximum	302			Median	8		
64				SD	39.11			CV	2.212		
65				k hat (MLE)	0.254			k star (bias corrected MLE)	0.253		
66				Theta hat (MLE)	69.58			Theta star (bias corrected MLE)	69.87		
67				nu hat (MLE)	45.74			nu star (bias corrected)	45.55		
68				MLE Mean (bias corrected)	17.68			MLE Sd (bias corrected)	35.15		
69								Adjusted Level of Significance (β)	0.0473		
70				Approximate Chi Square Value (45.55, α)	31.07			Adjusted Chi Square Value (45.55, β)	30.87		
71				95% Gamma Approximate UCL (use when n>=50)	25.92			95% Gamma Adjusted UCL (use when n<50)	26.09		
72											
73	**Lognormal GOF Test on Detected Observations Only**										
74				Lilliefors Test Statistic	0.111			**Lilliefors GOF Test**			
75				5% Lilliefors Critical Value	0.117			Detected Data appear Lognormal at 5% Significance Level			
76	**Detected Data appear Approximate Lognormal at 5% Significance Level**										
77											
78	**Lognormal ROS Statistics Using Imputed Non-Detects**										
79				Mean in Original Scale	18.49			Mean in Log Scale	1.995		
80				SD in Original Scale	38.76			SD in Log Scale	1.342		
81				95% t UCL (assumes normality of ROS data)	25.28			95% Percentile Bootstrap UCL	25.6		
82				95% BCA Bootstrap UCL	28.01			95% Bootstrap t UCL	31.96		
83				95% H-UCL (Log ROS)	26.18						
84											
85	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**										
86				KM Mean (logged)	2.363			95% H-UCL (KM -Log)	19.72		
87				KM SD (logged)	0.907			95% Critical H Value (KM-Log)	2.158		
88				KM Standard Error of Mean (logged)	0.0964						
89											
90	**DL/2 Statistics**										
91				**DL/2 Normal**				**DL/2 Log-Transformed**			
92				Mean in Original Scale	18.59			Mean in Log Scale	2.109		
93				SD in Original Scale	38.71			SD in Log Scale	1.154		
94				95% t UCL (Assumes normality)	25.38			95% H-Stat UCL	21.51		
95	**DL/2 is not a recommended method, provided for comparisons and historical reasons**										
96											
97	**Nonparametric Distribution Free UCL Statistics**										
98	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**										
99											
100	**Suggested UCL to Use**										
101				95% KM (BCA) UCL	27.3						
102											
103	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
104	Recommendations are based upon data size, data distribution, and skewness.										
105	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
106	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.										
107											