Office Address: 1405 Burke Road, Kew East, VIC 3102.
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Registered Member of the Australian Contaminated Land Consultants Association (ACLCA)

20 March 2023

Ref: 485 Golf Links Road, Langwarrin South

McIldowie Partners
Via Email

Attention: Frank Burridge
Email: FBurridge@mcildowiepartners.com.au

Dear Frank,

Re: Soil Assessment Report – 485 Golf Links Road, Langwarrin South

DRC Environmental Pty Ltd (DRC) are pleased to provide McIldowie Partners this Soil Contamination Assessment Report for 485 Golf Links Road, Langwarrin South, known as Woodleigh School Senior Campus (the site).

It is understood by DRC that a new building project, including three classroom buildings, is proposed at the site and soils excavated during the future development works are required to be classified for the purpose of potential off-site disposal or on-site reuse. Soil assessment is also undertaken to assess the contamination risk of the underlying soil in terms of its suitability for the proposed use as a high school.

Guidelines

As the material subject to this categorisation is to be potentially removed from site, it is a requirement of the EPA and the receiving facility to have an appropriate categorisation of the material for transport and disposal purposes. EPA Publication 1828.2 (March 2021) Waste Disposal Categories – Characteristics and Thresholds has been referenced for categorisation of these soils.

The Victorian Government Gazette – Environmental Reference Standards (ERS)(2021) sets out the regulatory framework for the prevention and management of contaminated land within the State of Victoria. The ERS identifies specific land use categories as well as a number of protected environmental values associated with each of the land use categories. The EPA considers that land (soil) is polluted where current and/or future protected environmental values for the relevant land use categories are precluded. Environmental values of land are considered to be precluded when relevant soil quality objectives set out in the ERS, for those environmental values, have been exceeded.

The environmental values of land requiring protection, based on the proposed use for a secondary school, are:

- Land dependent ecosystems and species – modified to highly ecosystems;
- Human health;
- Building and structures;
- Aesthetics and
- Production of food, flora and fibre.

To assess analytical results of the soil samples collected during the assessment, primary reference has been made to the various guidelines contained within the ASC NEPM 2013.

In order to assess the soils potential risk to human health, reference has been made to Health Investigation Levels (HILs) and Health Screening Levels (HSLs) within the NEPM 2013. The HSLs are based on a range of site-specific conditions including land use, soil type and depth.

The following exposure settings have been adopted for the purposes of this assessment:

- HIL – Exposure setting 'C' (recreational), which is applicable to the land use setting '*public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary school and footpath*';

- HSL – Exposure setting 'C' (recreational and open space), which is applicable to the land use setting described above. HSLs are based on the dominant overlying soil type (clay, silt or sand) and the depth of the sample. Criteria relevant to the samples dominant overlying soil matrix and depth have therefore been adopted.

Sampling was conducted in general accordance with EPA Publications IWRG 701 *Sampling and Analysis of Waters, Waste Waters, Soils and Wastes* (IWRG 701) and IWRG 702 *Soil Sampling* (IWRG 702), with consideration given to the origin of the material, variability of material and potential for contamination.

Analytical Program and Methodology

Fieldworks were undertaken by DRC on the 8 March 2023. The fieldworks consisted of drilling boreholes using a solid auger on a truck mounted drill rig at 10 locations across the site. The locations of the material subject to this soil contamination assessment at the time of sampling are provided in **Figure 1** attached.

Soil materials present within the **Fill Soils** were described as:

- Sandy SILT; grey, black, or red brown; fine grained sands; AND
- Sandy, gravelly, SILT; brown; fine to course grained sands and gravels.

Soil material present within the **Natural Soils** were described as:

- Sandy CLAY; brown/orange/tan/grey mottle; fine grained sands; AND
- SAND; grey; fine grained; trace clay and silt.

No visible asbestos containing materials (ACM), no staining and no odours were observed from the boreholes during the sampling process.

A total of 22 primary soil samples were submitted for laboratory analysis to a national association testing authority (NATA) accredited laboratory for testing of a range of analytes with regards to selected NEPM Guidelines and site-specific contaminants of potential concern (COPCs). COPCs were selected based on commonly found contaminants which include; Polycyclic Aromatic Hydrocarbons (PAH), Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN) and Organochlorine Pesticides (OCP).

Table 1 Sampling and Analytical Program and Soil Categorisation

Domain	Soil Description	Report No.	Sample IDs	Analysis	Method	Contaminant
Fill	Sandy SILT; grey, black, or red brown; fine grained sands; AND Sandy, gravelly, SILT; brown; fine to course grained sands and gravels.	970132-S	BH01_0.1 BH02_0.6 BH03_0.25 BH04_0.1 BH05_0.1 BH06_0.1 BH07_0.4 BH08_0.1 BH08_0.9 BH09_0.1 BH10_0.1 BH10_0.7	EPA 1828.2 Screen[1] B7C[2] OCP[3]	Total Concentrations	None
Natural	Sandy CLAY; brown/orange/tan/grey mottle; fine grained sands; AND SAND; grey; fine grained; trace clay and silt.	970132-S	BH01_1.2 BH02_1.2 BH03_0.7 BH04_1.3 BH05_1.4 BH06_1.0 BH07_0.8 BH08_1.2 BH09_1.0 BH10_1.3	EPA 1828.2 Screen[1] Metals[4]	Total Concentrations	None

[1]Analytes specified in Table 3, EPA Publication 1828.2 (2021).

[2]B7C – Arsenic, Cadmium, Copper, Chromium, Mercury, Lead, Nickel, Molybdenum, Selenium, Silver, Tin, Zinc, Polycyclic Aromatic Hydrocarbons (PAH), Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene and Napthalene.
[3]OCP – Organochlorine Pesticides.
[4]Metals – Arsenic, Cadmium, Copper, Chromium, Lead, Nickel, and Zinc.

Analytical Results

Fill Domain

DRC noted that soil analytical results from samples collected from the Fill Domain reported all analytes either below the laboratory Limit of Reporting (LOR) or below the EPA 1828.2 Table 3 criteria for Fill Material Upper Limits.

Soil analytical results from the Fill Domain were reported generally below the adopted NEPM 2013 ecological and human health criteria for public open spaces apart from one TRH >C16-C34 Fraction (F3) result from BH09_0.1, which reported an elevated concentration (380 mg/kg) which exceeded the adopted Ecological Screening Level (ESL) criteria.

Natural Domain

DRC noted that soil analytical results from samples collected from the Natural Domain reported all analytes either below the laboratory Limit of Reporting (LOR) or below the EPA 1828.2 Table 3 criteria for Fill Material Upper Limits.

Soil analytical results from all analytes were also reported either below the laboratory of reporting (LOR) or below the adopted NEPM 2013 ecological and human health criteria.

Tabulated soil analytical results are provided in **Table 1** and **Table 2.**

Conclusions and Recommendations

Soil Contamination

DRC note that all samples reported concentrations either below the adopted human health and ecological guidelines or the Laboratory Limit of Reporting (LOR), except for one sample from BH09_0.1, which is located near the centre of the eastern site boundary. A marginal exceedance of TRH >C16-C34 Fraction (F3) is reported above the adopted ecological criteria.

However, based on this TRH concentration, this is not considered to be a concern due to the conservatism of the screening criteria and will only have a minor ecological impact (i.e. some sensitive plant species may not grow there). In addition, the proposed development plan **attached** to the report indicates the area with exceedance is likely to be located near the proposed classroom building, where vegetation would not be planted. Therefore, the exceedance is not relevant to the proposed use.

Based on the above findings, the environmental values of Land dependent ecosystems and species and Human health are not precluded.

The field investigation did not identify any aesthetic issues for the subject materials. During the sampling process, no visible asbestos-containing materials (ACM), staining, or odours were identified from the drilled boreholes.

As such, the soil data indicate that the soil condition is suitable for the proposed land use as a secondary school.

EPA Publication 1828.2 Waste Soil Classification

Based on the data collected from the investigation, the Fill and Natural Domain is classifiable as **Fill Material.**

As per EPA guidance the use and disposal of waste **Fill Material** is regulated with reference to the EPA determination published by Victorian Government Gazette No. S301on the 18 June 2021. With reference to this determination, this report intends to meet Condition (2) of this determination.

It is also noted that under the **Specification** of the determination should also be met to allow offsite disposal of the soils subject under this determination noting that the Fill Material:

1. does not contain, or the waste generator has removed as far as reasonably practicable, any wastes or physical contaminants that are not soil, including concrete, bricks, ceramics, asphalt, plastics, glass, metal or wood, putrescible or organic wastes; and
2. is not malodourous, including from petroleum hydrocarbons, hydrogen sulphide or organosulfur compounds; and
3. does not contain discoloured chemical deposits or staining from chemical waste.

During the excavation and transport of this material if any soils that are not consistent with the representative samples (i.e. a change in soil types, presence of unknown fill or odorous or stained soils) a review of that material should be conducted to confirm whether the results reported above are still applicable.

Report Prepared by:

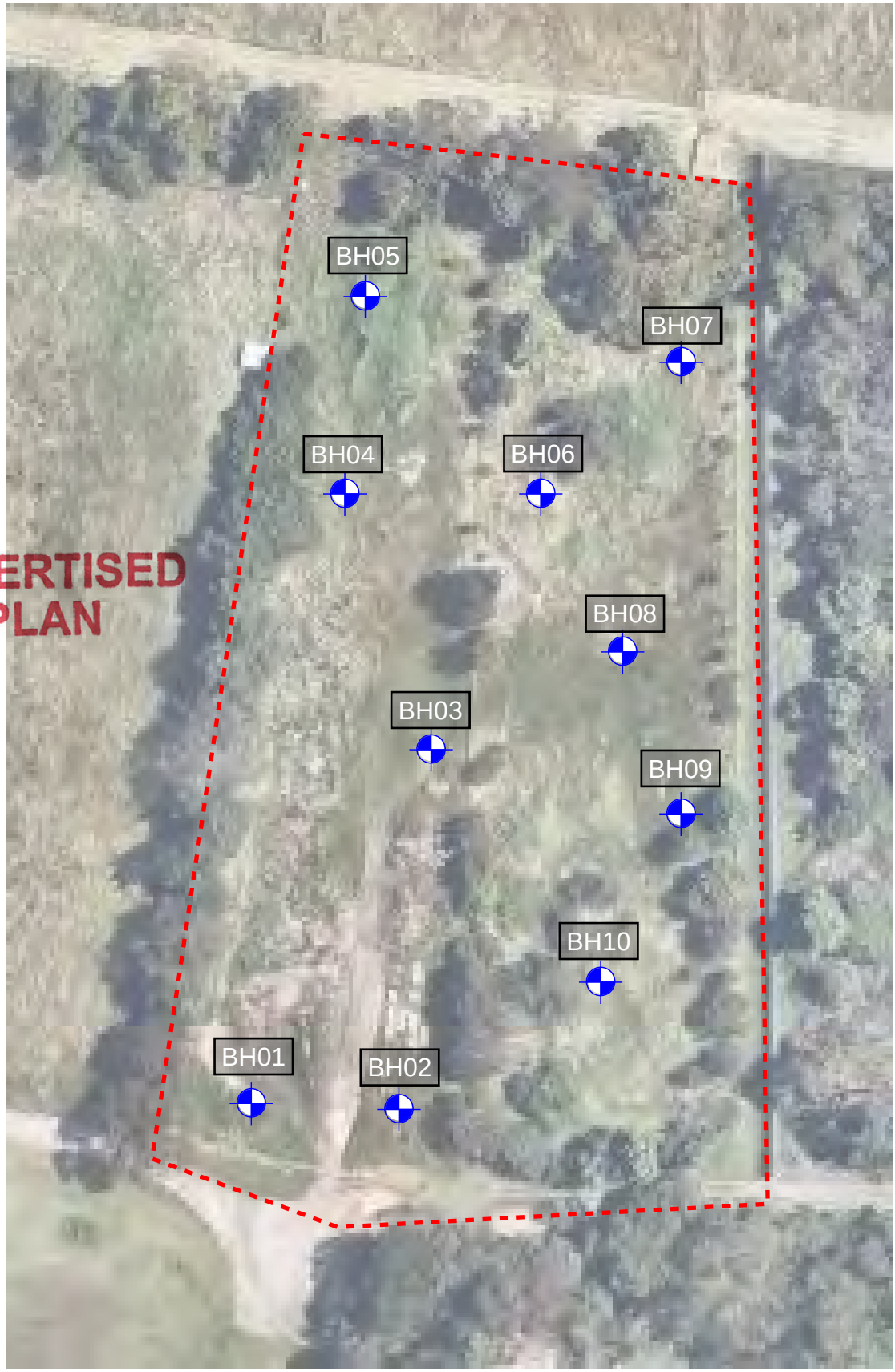
Natasha Kilpady

Environmental Scientist

Disclaimer

By use of this document, data or professional advice, third parties agree to indemnify DRC Environmental Pty Ltd ATF DRC Partners Trust, its directors and management against any loss including any form of consequential loss.

Attached: Figure 1 – Sampling Location Plan
Table 1 – Analytical Soil Chemistry Results
Table 2 – NEPM Analytical Soil Chemistry Results
NATA Laboratory Certificates of Analysis
Proposed Development Plan



N

0 15 30

Scale in Metres

APPROXIMATE SITE BOUNDARY

APPROXIMATE BOREHOLE LOCATIONS

DRC ENVIRONMENTAL
DEVELOPMENT REMEDIATION CONSULTANTS
1405 BURKE ROAD,
KEW EAST VIC 3102
WEBSITE:WWW.DRCENVIRO.COM.AU
PHONE: 0402 455 638

PROJECT: 485 Golf Links Road, LANGWARRIN SOUTH

CLIENT: McIldowie Partners

TITLE: Borehole Sampling Locations

DATE: March 2023

DESIGNED: NEW

DRAWN: NEW

SOURCE: nearmap

FIGURE: 1

A4 size

DRC Environmental
Development Remediation Consultants

Table 1
EPA Publication 1828.2 Soil Analytical Results

485 Golf Links Road, Langwarrin South
Mclldowie Partners

				BTEX							TRH														
				Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.1	0.1	0.1	0.2	0.1	0.3	20	20	50	50	100	100	100	0.4	1	1	0.5	0.5	5	0.5
EPA Vic 1828.2 Category B upper limit					16	12,800	4,800			9,600									64,000	320	3,200			
EPA Vic 1828.2 Category C upper limit					4	3,200	1,200			2,400									16,000	80	800			
EPA Vic 1828.2 Category D / Industrial Waste upper limit					4	3,200	1,200			2,400									16,000	80	800			
EPA Vic 1828.2 Fill material upper limit					1																			
Lab Report Number	**Field ID**	**Date**	**Depth**																					
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100	<100							
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																					
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100	<100							
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																					
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																					
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	120	<100	120							
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	130	<100	130	<0.4	<1	<1	<0.5	<0.5	<5	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																					
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	170	<100	170							
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																					
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	200	<100	200							
970132	**BH06_1.0**	**08 Mar 2023**	**1**																					
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100	<100							
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																					
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	100	<100	100							
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100	<100	<0.4	<1	<1	<0.5	<0.5	<5	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	52	52	380	<100	432							
970132	**BH09_1.0**	**08 Mar 2023**	**1**																					
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	200	<100	200							
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																					
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																					

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

DRC ENVIRONMENTAL
DEVELOPMENT REMEDIATION CONSULTANTS

Table 1
EPA Publication 1828.2 Soil Analytical Results

485 Golf Links Road, Langwarrin South
Mclldowie Partners

				Phenols														Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic									
				2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)			1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.2	1	5	20	1	5	0.5	1	10	0.5	1	20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic 1828.2 Category B upper limit				4,800							32,000					2,200			1,600	4,800	210	190		480		48
EPA Vic 1828.2 Category C upper limit				1,200							8,000					560			400	1,200	52	48		120		12
EPA Vic 1828.2 Category D / Industrial Waste upper limit				1,200							8,000					560			400	1,200	52	48		120		12
EPA Vic 1828.2 Fill material upper limit															1	60	1									
Lab Report Number	**Field ID**	**Date**	**Depth**																									
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																									
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																									
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																									
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																									
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**																									
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																									
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																									
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH06_1.0**	**08 Mar 2023**	**1**																									
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**																									
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																									
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH09_1.0**	**08 Mar 2023**	**1**																									
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																									
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																									

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

DRC ENVIRONMENTAL
DEVELOPMENT REMEDIATION CONSULTANTS

Table 1
EPA Publication 1828.2 Soil Analytical Results

485 Golf Links Road, Langwarrin South
McIldowie Partners

				Chlorinated Hydrocarbons																			
				1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic 1828.2 Category B upper limit									48			960					64	11	80	800			4.8
EPA Vic 1828.2 Category C upper limit									12			240					16	2.8	20	200			1.2
EPA Vic 1828.2 Category D / Industrial Waste upper limit									12			240					16	2.8	20	200			1.2
EPA Vic 1828.2 Fill material upper limit																							
Lab Report Number	**Field ID**	**Date**	**Depth**																				
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																				
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																				
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																				
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																				
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**																				
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																				
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																				
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH06_1.0**	**08 Mar 2023**	**1**																				
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**																				
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																				
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH09_1.0**	**08 Mar 2023**	**1**																				
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																				
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																				
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																				

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

Table 1
EPA Publication 1828.2 Soil Analytical Results

				Halogenated Benzenes								Halogenated Hydrocarbons					Herbicides	Inorganics		
				1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Dinoseb	Cyanide Total	Moisture Content (dried @ 103°C)	pH (1:5 aqueous extract)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	-
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	20	5	1	0.1
EPA Vic 1828.2 Category B upper limit					24,000		640			4,800								10,000		< 2 or >12.5
EPA Vic 1828.2 Category C upper limit					6,000		160			1,200								2,500		
EPA Vic 1828.2 Category D / Industrial Waste upper limit					6,000		160			1,200								2,500		
EPA Vic 1828.2 Fill material upper limit																		50		< 4 or > 10
Lab Report Number	**Field ID**	**Date**	**Depth**																	
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																9.9	
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																12	
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																5.2	
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																15	
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																8.1	
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**								<0.05								11	
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<5	8.8	8.2
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																7.6	
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																4.4	
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																4.6	
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																5.1	
970132	**BH06_1.0**	**08 Mar 2023**	**1**																9.0	
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**								<0.05								5.0	
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																5.0	
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																3.1	
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<5	16	5.9
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																5.9	
970132	**BH09_1.0**	**08 Mar 2023**	**1**																17	
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																5.8	
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**								<0.05								4.9	
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																	

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

Table 1
EPA Publication 1828.2 Soil Analytical Results

				MAH					Metals													
				Total MAH	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Arsenic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	2	0.4	1	5	5	5	0.1	5	5	2	2	10	5
EPA Vic 1828.2 Category B upper limit								480	2,000	400	2,000		20,000	6,000	300	4,000	12,000	40,000	720		140,000
EPA Vic 1828.2 Category C upper limit								120	500	100	500		5,000	1,500	75	1,000	3,000	10,000	180		35,000
EPA Vic 1828.2 Category D / Industrial Waste upper limit								120	500	100	500		5,000	1,500	75	1,000	3,000	10,000	180		35,000
EPA Vic 1828.2 Fill material upper limit				7					20	3	1		100	300	1	40	60	10	10	50	200
Lab Report Number	**Field ID**	**Date**	**Depth**																		
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**						<2	<0.4		13	<5	5.5			5.2				<5
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**						<2	<0.4		5.0	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**						2.6	<0.4		33	<5	9.9			9.5				5.9
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**						<2	<0.4		<5	<5	<5			<5				<5
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.4	<1	<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**						<2	<0.4		<5	<5	<5			<5				<5
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**						<2	<0.4		5.6	<5	<5			<5				<5
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH06_1.0**	**08 Mar 2023**	**1**						<2	<0.4		<5	<5	<5			<5				<5
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**						2.1	<0.4		8.5	<5	<5	<0.1	<5	5.8	<2	<2	<10	12
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**						<2	<0.4		<5	<5	<5			<5				<5
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.4	<1	24	<5	7.4	<0.1	<5	5.6	<2	<2	<10	<5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH09_1.0**	**08 Mar 2023**	**1**						<2	<0.4		40	<5	13			7.2				6.4
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**						<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																		
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**						2.3	<0.4		20	<5	5.8			<5				<5

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

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Table 1
EPA Publication 1828.2 Soil Analytical Results

485 Golf Links Road, Langwarrin South
Mclldowie Partners

				Organochlorine Pesticides																								
				Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
EPA Vic 1828.2 Category B upper limit					50				4.8		16				50									4.8			
EPA Vic 1828.2 Category C upper limit					10				1.2		4				50									1.2			
EPA Vic 1828.2 Category D / Industrial Waste upper limit					10				1.2		4				50									1.2			
EPA Vic 1828.2 Fill material upper limit				1																							
Lab Report Number	**Field ID**	**Date**	**Depth**																									
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																									
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																									
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																									
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																									
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																									
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																									
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH06_1.0**	**08 Mar 2023**	**1**																									
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																									
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH09_1.0**	**08 Mar 2023**	**1**																									
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																									
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																									

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

Table 1
EPA Publication 1828.2 Soil Analytical Results

				PAH																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic 1828.2 Category B upper limit								160												400
EPA Vic 1828.2 Category C upper limit								40												100
EPA Vic 1828.2 Category D / Industrial Waste upper limit								20												50
EPA Vic 1828.2 Fill material upper limit								1												20
Lab Report Number	**Field ID**	**Date**	**Depth**																	
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																	
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																	
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																	
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																	
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																	
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH06_1.0**	**08 Mar 2023**	**1**																	
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																	
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH09_1.0**	**08 Mar 2023**	**1**																	
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																	
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																	

Environmental Standards

EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

Table 1
EPA Publication 1828.2 Soil Analytical Results

				PCBs								Solvents						TPH				
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	20	20	50	50	50
EPA Vic 1828.2 Category B upper limit											6	32,000					2,600				40,000
EPA Vic 1828.2 Category C upper limit											50	8,000					650				10,000
EPA Vic 1828.2 Category D / Industrial Waste upper limit											2	8,000					325				5,000
EPA Vic 1828.2 Fill material upper limit											2						100				1,000
Lab Report Number	**Field ID**	**Date**	**Depth**																		
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**														<20	<20	<50	<50	<50
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																		
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**														<20	<20	<50	<50	<50
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																		
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																		
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**														<20	<20	55	79	134
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	71	82	153
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																		
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**														<20	<20	91	100	191
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																		
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**														<20	<20	86	160	246
970132	**BH06_1.0**	**08 Mar 2023**	**1**																		
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**														<20	<20	<50	57	57
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																		
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**														<20	<20	58	61	119
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<50
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**														<20	<20	210	240	450
970132	**BH09_1.0**	**08 Mar 2023**	**1**																		
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**														<20	<20	100	130	230
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																		
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																		

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EPA Victoria, July 2021, EPA Vic 1828.2 Category B upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category C upper limit
EPA Victoria, July 2021, EPA Vic 1828.2 Category D / Industrial Waste upper lim
EPA Victoria, July 2021, EPA Vic 1828.2 Fill material upper limit

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Table 2
NEPM Soil Analytical Results

				BTEX							TRH					
				Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.1	0.1	0.1	0.2	0.1	0.3	20	20	50	50	100	100
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil											**700**[#1]		**1,000**[#1]		**2,500**	**10,000**
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand				NL | NL | NL | NL[#2]	NL | NL | NL | NL[#2]	NL | NL | NL | NL[#2]	NL | NL | NL | NL[#2]			NL | NL | NL | NL[#2]		NL | NL | NL | NL[#2]			
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space				170												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					50	85	70			105		180[#4]	120[#5]	120[#6]	300	2,800
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																
NEPM 2013 Table 1A(1) HILs Rec C Soil																
Lab Report Number	**Field ID**	**Date**	**Depth**													
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**													
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**													
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**													
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	120	<100
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	130	<100
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**													
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	170	<100
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**													
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	200	<100
970132	**BH06_1.0**	**08 Mar 2023**	**1**													
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**													
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	100	<100
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	<100	<100
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	52	52	380	<100
970132	**BH09_1.0**	**08 Mar 2023**	**1**													
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<20	<50	<50	200	<100
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**													
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**													

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NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand
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2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Comments

#1 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2
#2 Derived soil HSL exceeds soil saturation concentraiton
#3 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#4 To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#5 ERRATA Updated 30 April 2014 . Naphthalene should not be subtracted.
#6 Errata 30 April 2014. Naphthalene should not be subtracted from >C
#7 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#8 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.
#9 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.
#10 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)
#11 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#12 Values of soil characteristics for the Australian reference soil are used to calculate EIL.

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Table 2
NEPM Soil Analytical Results

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					Phenols																				
					>C10-C40 Fraction (Sum)	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Chlorinated hydrocarbons EPAVic
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					100	0.4	1	1	0.5	0.5	5	0.5	0.5	0.2	1	5	20	1	5	0.5	1	10	0.5	1	20	0.5
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																									
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																									
NEPM 2013 Table 1A(1) HILs Rec C Soil																				4,000	120		40,000			
Lab Report Number	**Field ID**	**Date**	**Depth**																						
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	<100																					
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	<100																					
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	120																					
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	130	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																						
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	170																					
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																						
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	200																					
970132	**BH06_1.0**	**08 Mar 2023**	**1**																						
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<100																					
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																						
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	100																					
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<100	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	432																					
970132	**BH09_1.0**	**08 Mar 2023**	**1**																						
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	200																					
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																						

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NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
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Table 2
NEPM Soil Analytical Results

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				Chlorinated Hydrocarbons																					
				Other chlorinated hydrocarbons EPAVic	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																									
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																									
NEPM 2013 Table 1A(1) HILs Rec C Soil																									
Lab Report Number	**Field ID**	**Date**	**Depth**																						
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																						
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**																						
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																						
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																						
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH06_1.0**	**08 Mar 2023**	**1**																						
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**																						
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																						
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH09_1.0**	**08 Mar 2023**	**1**																						
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																						

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2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Table 2
NEPM Soil Analytical Results

									Halogenated Benzenes								Halogenated Hydrocarbons					Herbicides	
				Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Dinoseb	Cyanide Total
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	20	5
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																									
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																									
NEPM 2013 Table 1A(1) HILs Rec C Soil																		10							
Lab Report Number	**Field ID**	**Date**	**Depth**																						
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																						
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**															<0.05							
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<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	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																						
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																						
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH06_1.0**	**08 Mar 2023**	**1**																						
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**															<0.05							
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																						
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH09_1.0**	**08 Mar 2023**	**1**																						
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**															<0.05							
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																						

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
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2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Table 2
NEPM Soil Analytical Results

				Inorganics		MAH					Metals														
				Moisture Content (dried @ 103°C)	pH (1:5 aqueous extract)	Total MAH	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	Styrene	Arsenic	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic
				%	-	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				1	0.1	0.5	0.5	0.5	0.5	0.5	2	0.4	1	5	5	5	0.1	5	5	2	2	10	5	0.1	0.1
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																									
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space											100[#3]				200[#12]	1100			180[#12]				460[#12]		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)					5.5																				
NEPM 2013 Table 1A(1) HILs Rec C Soil											300[#7]	90	300		17,000	600[#8]	80[#9]		1,200	700			30,000		
Lab Report Number	**Field ID**	**Date**	**Depth**																						
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	9.9							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**	12							<2	<0.4		13	<5	5.5			5.2				<5		
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	5.2							<2	<0.4		5.0	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**	15							2.6	<0.4		33	<5	9.9			9.5				5.9		
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**	8.1							<2	<0.4		<5	<5	<5			<5				<5		
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	11							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5	<0.1	<0.1
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	8.8	8.2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.4	<1	<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5	<0.1	<0.1
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**	7.6							<2	<0.4		<5	<5	<5			<5				<5		
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	4.4							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**	4.6							<2	<0.4		5.6	<5	<5			<5				<5		
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	5.1							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH06_1.0**	**08 Mar 2023**	**1**	9.0							<2	<0.4		<5	<5	<5			<5				<5		
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	5.0							2.1	<0.4		8.5	<5	<5	<0.1	<5	5.8	<2	<2	<10	12	<0.1	<0.1
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**	5.0							<2	<0.4		<5	<5	<5			<5				<5		
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	3.1							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	16	5.9	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.4	<1	24	<5	7.4	<0.1	<5	5.6	<2	<2	<10	<5	<0.1	<0.1
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	5.9							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH09_1.0**	**08 Mar 2023**	**1**	17							<2	<0.4		40	<5	13			7.2				6.4		
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	5.8							<2	<0.4		<5	<5	<5	<0.1	<5	<5	<2	<2	<10	<5		
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**	4.9																				<0.1	<0.1
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**								2.3	<0.4		20	<5	5.8			<5				<5		

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Table 2
NEPM Soil Analytical Results

				Organochlorine Pesticides																					
				4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD		DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																									
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space												180													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																									
NEPM 2013 Table 1A(1) HILs Rec C Soil							10		70				400					20				10		400	30
Lab Report Number	**Field ID**	**Date**	**Depth**																						
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**																						
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																						
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																						
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																						
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																						
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH06_1.0**	**08 Mar 2023**	**1**																						
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																						
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH09_1.0**	**08 Mar 2023**	**1**																						
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**																						
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																						

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Table 2
NEPM Soil Analytical Results

				PAH																PC			
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																							
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																	NL | NL | NL | NL [#2]							
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																	170						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								0.7															
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																							
NEPM 2013 Table 1A(1) HILs Rec C Soil																				300 [#10]				
Lab Report Number	**Field ID**	**Date**	**Depth**																				
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**																				
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**																				
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**																				
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**																				
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**																				
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH06_1.0**	**08 Mar 2023**	**1**																				
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**																				
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH09_1.0**	**08 Mar 2023**	**1**																				
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**	<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	<0.5	<0.5				
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**																				
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**																				

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NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

Table 2
NEPM Soil Analytical Results

				Bs				Solvents					TPH				
				Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR				0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	20	20	50	50	50
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																	
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand																	
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																	
AS 2159 -2009 Exposure Classification for Concrete Piles - Piles in Soil (Non-aggressive)																	
NEPM 2013 Table 1A(1) HILs Rec C Soil							1[#11]										
Lab Report Number	**Field ID**	**Date**	**Depth**														
970132	**BH01_0.1**	**08 Mar 2023**	**0.1**										<20	<20	<50	<50	<50
970132	**BH01_1.2**	**08 Mar 2023**	**1.2**														
970132	**BH02_0.6**	**08 Mar 2023**	**0.6**										<20	<20	<50	<50	<50
970132	**BH02_1.2**	**08 Mar 2023**	**1.2**														
970132	**BH03_0.7**	**08 Mar 2023**	**0.7**														
970132	**BH03_0.25**	**08 Mar 2023**	**0.25**										<20	<20	55	79	134
970132	**BH04_0.1**	**08 Mar 2023**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	71	82	153
970132	**BH04_1.3**	**08 Mar 2023**	**1.3**														
970132	**BH05_0.1**	**08 Mar 2023**	**0.1**										<20	<20	91	100	191
970132	**BH05_1.4**	**08 Mar 2023**	**1.4**														
970132	**BH06_0.1**	**08 Mar 2023**	**0.1**										<20	<20	86	160	246
970132	**BH06_1.0**	**08 Mar 2023**	**1**														
970132	**BH07_0.4**	**08 Mar 2023**	**0.4**										<20	<20	<50	57	57
970132	**BH07_0.8**	**08 Mar 2023**	**0.8**														
970132	**BH08_0.1**	**08 Mar 2023**	**0.1**										<20	<20	58	61	119
970132	**BH08_1.2**	**08 Mar 2023**	**1.2**	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<50
970132	**BH09_0.1**	**08 Mar 2023**	**0.1**										<20	<20	210	240	450
970132	**BH09_1.0**	**08 Mar 2023**	**1**														
970132	**BH10_0.1**	**08 Mar 2023**	**0.1**										<20	<20	100	130	230
970132	**BH10_0.7**	**08 Mar 2023**	**0.7**														
970132	**BH10_1.3**	**08 Mar 2023**	**1.3**														

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
2013, NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Rec C Soil

CHAIN OF CUSTODY DOCUMENTATION

DRC Environmental Pty Ltd

CLIENT: DRC Environmental Pty Ltd
ADDRESS / OFFICE: 1405 Burke Road, Kew East VIC 3102
PROJECT MANAGER (PM): Patrick Baldwin
PROJECT ID: 485 Golf Links Rd, Langwarrin South
SITE: N/A P.O. NO.: N/A
RESULTS REQUIRED (Date): Std TAT QUOTE NO.: 220519DRCVA

SAMPLER: Natalie
MOBILE: 0416 412 646

EMAIL REPORT TO: patrick@drcenviro.com.au renee@drcenviro.com.au sheridan@drcenviro.com.au rowan@drcenviro.com.au stephen@drcenviro.com.au poppy@drcenviro.com.au alice@drcenviro.com.au jonathan@drcenviro.com.au elena@drcenviro.com.au natasha@drcenviro.com.au natalie@drcenviro.com.au

FOR LABORATORY USE ONLY
COOLER SEAL (circle appropriate)
Intact: Yes No N/A
SAMPLE TEMPERATURE
CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

Notes: e.g. Highly contaminated samples
e.g. "High PAHs expected".
Extra volume for QC or trace LORs etc.

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		R1 x 4w	B7C	MT	OCPs	Hold please
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles					
	BH01_0.1	S	8/3/23		jar	1		X			
	BH01_1.2								X		
	BHC2-0.1										X
	BH02-0.6							X			
	BH02_1.2								X		
	BHC3-0.1										
	BHC3_0.25							X		X	
	BH03_0.7								X		
	BH04_0.1						X				
	BH04_1.0										X
	BH04_1.3								X		
	BHC5_0.1							X			

#970132
8/03/23

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: Natalie Wehbrynowycz	Date: 8/3/23	Name:	Date:	Con' Note No:
Of: DRC Environmental	Time:	Of:	Time:	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; 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 Bad for Acid Sulphate Soils; B = Unpreserved Bag.

ADVERTISED PLAN

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CHAIN OF CUSTODY DOCUMENTATION

DRC Environmental Pty Ltd

CLIENT: DRC Environmental Pty Ltd
SAMPLER: Natalie
ADDRESS / OFFICE: 1405 Burke Road, Kew East VIC 3102
MOBILE: 0416 412 646
PROJECT MANAGER (PM): Patrick Baldwin
EMAIL REPORT TO: patrick@drcenviro.com.au renee@drcenviro.com.au sheridan@drcenviro.com.au rowan@drcenviro.com.au stephen@drcenviro.com.au poppy@drcenviro.com.au alice@drcenviro.com.au jonathan@drcenviro.com.au elena@drcenviro.com.au natasha@drcenviro.com.au natalie@drcenviro.com.au
PROJECT ID: 485 Golf Links Rd, Langwarrin South
SITE: N/A
P.O. NO.: N/A
RESULTS REQUIRED (Date): std TAT
QUOTE NO.: 220519DRCVA
ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

FOR LABORATORY USE ONLY
COOLER SEAL (circle appropriate)
Intact: Yes No N/A
SAMPLE TEMPERATURE
CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Notes: e.g. Highly contaminated samples
e.g. "High PAHs expected".
Extra volume for QC or trace LORs etc.

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		R1 x Flw	B7C	M7	OCPs	Hold please
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles					
	BH05_1.4	S	8/3/23		jar	1			X		
	BH06_0.1							X			
	BH06_1.0								X		
	BH07_0.4							X		X	
	BH07_0.8								X		
	BH08_0.1							X			
	BH08_0.9									X	
	BH08_1.2						X				
	BH09_0.1							X			
	BH09_1.0								X		
	BH10_0.1							X			
	BH10_0.7									X	

#970132

08/03/23

DATE: 8/3/23
TIME: 2:38pm
COURIER: V/O 0.8+1.2=2
TEMPERATURE ATTEMPT TO CHILL: YES NO

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: Natalie Wehbrynowycz	Date: 8/3/23	Name:	Date:	Con' Note No:
Of: DRC Environmental	Time:	Of:	Time:	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; 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 Bad for Acid Sulphate Soils; B = Unpreserved Bag.

BH10_1.3	S	8/3/23	jar x 1	M7 please

DRC Environmental Pty Ltd
1405 Burke Road
Kew East
VIC 3102

Attention: **- CC SRA Patrick Baldwin**

Report **970132-S**
Project name 485 GOLF LINKS RD LANGWARRIN SOUTH
Received Date Mar 08, 2023

Client Sample ID			**BH01_0.1**	**BH01_1.2**	**BH02_0.6**	**BH02_1.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Ma0019487**	**M23-Ma0019488**	**M23-Ma0019489**	**M23-Ma0019490**
Date Sampled			**Mar 08, 2023**	**Mar 08, 2023**	**Mar 08, 2023**	**Mar 08, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	97	-	63	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
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	-

Client Sample ID			BH01_0.1	BH01_1.2	BH02_0.6	BH02_1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019487	M23-Ma0019488	M23-Ma0019489	M23-Ma0019490
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	106	-	94	-
p-Terphenyl-d14 (surr.)	1	%	74	-	87	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	2.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	13	5.0	33
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	5.5	< 5	9.9
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	< 5	5.2	< 5	9.5
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	< 10	-
Zinc	5	mg/kg	< 5	< 5	< 5	5.9
Sample Properties						
% Moisture	1	%	9.9	12	5.2	15

Client Sample ID			BH03_0.25	BH03_0.7	BH04_0.1	BH04_1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019491	M23-Ma0019492	M23-Ma0019493	M23-Ma0019494
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	55	-	71	-
TRH C29-C36	50	mg/kg	79	-	82	-
TRH C10-C36 (Total)	50	mg/kg	134	-	153	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	120	-	130	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	120	-	130	-

Client Sample ID			BH03_0.25	BH03_0.7	BH04_0.1	BH04_1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019491	M23-Ma0019492	M23-Ma0019493	M23-Ma0019494
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	80	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	131	-	131	-
p-Terphenyl-d14 (surr.)	1	%	50	-	56	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	< 10	-
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	11	8.1	8.8	7.6

Client Sample ID			BH03_0.25	BH03_0.7	BH04_0.1	BH04_1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019491	M23-Ma0019492	M23-Ma0019493	M23-Ma0019494
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	92	-	82	-
Tetrachloro-m-xylene (surr.)	1	%	84	-	79	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH03_0.25	BH03_0.7	BH04_0.1	BH04_1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019491	M23-Ma0019492	M23-Ma0019493	M23-Ma0019494
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	59	-
Toluene-d8 (surr.)	1	%	-	-	65	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	82	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	79	-

Client Sample ID			BH03_0.25	BH03_0.7	BH04_0.1	BH04_1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019491	M23-Ma0019492	M23-Ma0019493	M23-Ma0019494
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
Total cresols*	0.5	mg/kg	-	-	< 0.5	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	96	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.2	-

Client Sample ID			BH05_0.1	BH05_1.4	BH06_0.1	BH06_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019495	M23-Ma0019496	M23-Ma0019497	M23-Ma0019498
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	91	-	86	-
TRH C29-C36	50	mg/kg	100	-	160	-
TRH C10-C36 (Total)	50	mg/kg	191	-	246	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	170	-	200	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	170	-	200	-

Client Sample ID			BH05_0.1	BH05_1.4	BH06_0.1	BH06_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019495	M23-Ma0019496	M23-Ma0019497	M23-Ma0019498
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
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	%	55	-	69	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	60	-	61	-
p-Terphenyl-d14 (surr.)	1	%	80	-	72	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.6	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	< 10	-
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	4.4	4.6	5.1	9.0

Client Sample ID			BH07_0.4	BH07_0.8	BH08_0.1	BH08_1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019499	M23-Ma0019500	M23-Ma0019501	M23-Ma0019502
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	58	< 50
TRH C29-C36	50	mg/kg	57	-	61	< 50
TRH C10-C36 (Total)	50	mg/kg	57	-	119	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	92	-	67	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	72	-	63	119
p-Terphenyl-d14 (surr.)	1	%	78	-	82	98

Client Sample ID			BH07_0.4	BH07_0.8	BH08_0.1	BH08_1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019499	M23-Ma0019500	M23-Ma0019501	M23-Ma0019502
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.1	< 2	< 2	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.5	< 5	< 5	24
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	7.4
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	< 5	< 5
Nickel	5	mg/kg	5.8	< 5	< 5	5.6
Selenium	2	mg/kg	< 2	-	< 2	< 2
Silver	2	mg/kg	< 2	-	< 2	< 2
Tin	10	mg/kg	< 10	-	< 10	< 10
Zinc	5	mg/kg	12	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	5.0	5.0	3.1	16
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	91	-	-	109
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	84
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH07_0.4	BH07_0.8	BH08_0.1	BH08_1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019499	M23-Ma0019500	M23-Ma0019501	M23-Ma0019502
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3

Client Sample ID			BH07_0.4	BH07_0.8	BH08_0.1	BH08_1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019499	M23-Ma0019500	M23-Ma0019501	M23-Ma0019502
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	60
Toluene-d8 (surr.)	1	%	-	-	-	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	109
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	84
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
Total cresols*	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	115
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (total)	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	5.9

Client Sample ID			BH09_0.1	BH09_1.0	BH10_0.1	BH10_0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019503	M23-Ma0019504	M23-Ma0019505	M23-Ma0019506
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	210	-	100	-
TRH C29-C36	50	mg/kg	240	-	130	-
TRH C10-C36 (Total)	50	mg/kg	450	-	230	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	52	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	52	-	< 50	-
TRH >C16-C34	100	mg/kg	380	-	200	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	432	-	200	-
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	%	64	-	53	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	59	-	59	-
p-Terphenyl-d14 (surr.)	1	%	78	-	84	-

Client Sample ID			BH09_0.1	BH09_1.0	BH10_0.1	BH10_0.7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Ma0019503	M23-Ma0019504	M23-Ma0019505	M23-Ma0019506
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	< 5	40	< 5	-
Copper	5	mg/kg	< 5	< 5	< 5	-
Lead	5	mg/kg	< 5	13	< 5	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	< 5	7.2	< 5	-
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	< 10	-
Zinc	5	mg/kg	< 5	6.4	< 5	-
Sample Properties						
% Moisture	1	%	5.9	17	5.8	4.9
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	122
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	91

Client Sample ID			BH10_1.3
Sample Matrix			Soil
Eurofins Sample No.			M23-Ma0019527
Date Sampled			Mar 08, 2023
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	2.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	20
Copper	5	mg/kg	< 5
Lead	5	mg/kg	5.8
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	< 5

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Vic EPA 1828.2 (Solids excluding Fluoride)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals IWRG 621 : Metals M12	Melbourne	Mar 09, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Volatile Organics	Melbourne	Mar 09, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polychlorinated Biphenyls	Melbourne	Mar 09, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Mar 09, 2023	28 Days
- Method: LTM-INO-4230 Hexavalent Chromium by UV-Vis			
Cyanide (total)	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
pH (1:5 Aqueous extract at 25 °C as rec.)	Melbourne	Mar 09, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Eurofins Suite 7C: PAH/TRH/BTEXN/M12			
BTEX	Melbourne	Mar 09, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Metals M7	Melbourne	Mar 09, 2023	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Mar 08, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: DRC Environmental Pty Ltd
Address: 1405 Burke Road
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VIC 3102

Project Name: 485 GOLF LINKS RD LANGWARRIN SOUTH

Order No.:
Report #: 970132
Phone: 0402 455 638
Fax:

Received: Mar 8, 2023 2:38 PM
Due: Mar 16, 2023
Priority: 5 Day
Contact Name: - CC SRA Patrick Baldwin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Organochlorine Pesticides	Metals M7	Moisture Set	Eurofins Suite 7C: PAH/TRH/BTEXN/M12	Vic EPA 1828.2 (Solids excluding Fluoride)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	BH01_0.1	Mar 08, 2023		Soil	M23-Ma0019487				X	X	
2	BH01_1.2	Mar 08, 2023		Soil	M23-Ma0019488			X	X		
3	BH02_0.6	Mar 08, 2023		Soil	M23-Ma0019489				X	X	
4	BH02_1.2	Mar 08, 2023		Soil	M23-Ma0019490			X	X		
5	BH03_0.25	Mar 08, 2023		Soil	M23-Ma0019491		X		X	X	
6	BH03_0.7	Mar 08, 2023		Soil	M23-Ma0019492			X	X		
7	BH04_0.1	Mar 08, 2023		Soil	M23-Ma0019493				X		X
8	BH04_1.3	Mar 08, 2023		Soil	M23-Ma0019494			X	X		
9	BH05_0.1	Mar 08, 2023		Soil	M23-Ma0019495				X	X	
10	BH05_1.4	Mar 08, 2023		Soil	M23-Ma0019496			X	X		
11	BH06_0.1	Mar 08, 2023		Soil	M23-Ma0019497				X	X	
12	BH06_1.0	Mar 08, 2023		Soil	M23-Ma0019498			X	X		
13	BH07_0.4	Mar 08, 2023		Soil	M23-Ma0019499		X		X	X	
14	BH07_0.8	Mar 08, 2023		Soil	M23-Ma0019500			X	X		

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Order No.:
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Received: Mar 8, 2023 2:38 PM
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Contact Name: - CC SRA Patrick Baldwin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Organochlorine Pesticides	Metals M7	Moisture Set	Eurofins Suite 7C: PAH/TRH/BTEXN/M12	Vic EPA 1828.2 (Solids excluding Fluoride)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X
15	BH08_0.1	Mar 08, 2023		Soil	M23-Ma0019501				X	X	
16	BH08_1.2	Mar 08, 2023		Soil	M23-Ma0019502				X		X
17	BH09_0.1	Mar 08, 2023		Soil	M23-Ma0019503				X	X	
18	BH09_1.0	Mar 08, 2023		Soil	M23-Ma0019504			X	X		
19	BH10_0.1	Mar 08, 2023		Soil	M23-Ma0019505				X	X	
20	BH10_0.7	Mar 08, 2023		Soil	M23-Ma0019506		X		X		
21	BH02_0.1	Mar 08, 2023		Soil	M23-Ma0019507	X					
22	BH03_0.1	Mar 08, 2023		Soil	M23-Ma0019508	X					
23	BH04_1.0	Mar 08, 2023		Soil	M23-Ma0019509	X					
24	BH08_0.9	Mar 08, 2023		Soil	M23-Ma0019510	X					
25	BH10_1.3	Mar 08, 2023		Soil	M23-Ma0019527			X			
Test Counts						4	3	9	20	9	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	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							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	117			70-130	Pass	
TRH C6-C10	%	116			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	100			70-130	Pass	
Toluene	%	92			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	96			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	92			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	
Anthracene	%	112			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	%	99			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	75			70-130	Pass	
Chrysene	%	113			70-130	Pass	
Dibenz(a.h)anthracene	%	78			70-130	Pass	
Fluoranthene	%	126			70-130	Pass	
Fluorene	%	121			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	113			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	129			70-130	Pass	
Pyrene	%	116			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Arsenic	%	103			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	113			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	108			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	105			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead	%	117			80-120	Pass	
Mercury	%	111			80-120	Pass	
Molybdenum	%	111			80-120	Pass	
Nickel	%	109			80-120	Pass	
Nickel	%	104			80-120	Pass	
Selenium	%	107			80-120	Pass	
Silver	%	108			80-120	Pass	
Tin	%	108			80-120	Pass	
Zinc	%	105			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDE	%	94			70-130	Pass	
4.4'-DDT	%	99			70-130	Pass	
a-HCH	%	72			70-130	Pass	
Aldrin	%	127			70-130	Pass	
b-HCH	%	98			70-130	Pass	
d-HCH	%	100			70-130	Pass	
Dieldrin	%	74			70-130	Pass	
Endosulfan I	%	75			70-130	Pass	
Endosulfan II	%	106			70-130	Pass	
Endosulfan sulphate	%	104			70-130	Pass	
Endrin	%	103			70-130	Pass	
Endrin aldehyde	%	115			70-130	Pass	
Endrin ketone	%	99			70-130	Pass	
g-HCH (Lindane)	%	72			70-130	Pass	
Heptachlor	%	99			70-130	Pass	
Heptachlor epoxide	%	99			70-130	Pass	
Hexachlorobenzene	%	108			70-130	Pass	
Methoxychlor	%	99			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	74			70-130	Pass	
1.1.1-Trichloroethane	%	86			70-130	Pass	
1.2-Dichlorobenzene	%	100			70-130	Pass	
1.2-Dichloroethane	%	97			70-130	Pass	
Trichloroethene	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	110			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	115			25-140	Pass	
2.4-Dichlorophenol	%	96			25-140	Pass	
2.4.5-Trichlorophenol	%	104			25-140	Pass	
2.4.6-Trichlorophenol	%	101			25-140	Pass	
2.6-Dichlorophenol	%	89			25-140	Pass	
4-Chloro-3-methylphenol	%	94			25-140	Pass	
Pentachlorophenol	%	112			25-140	Pass	
Tetrachlorophenols - Total	%	85			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	57			25-140	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Methyl-4.6-dinitrophenol			%	40			25-140	Pass	
2-Nitrophenol			%	104			25-140	Pass	
2.4-Dimethylphenol			%	88			25-140	Pass	
2-Methylphenol (o-Cresol)			%	125			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)			%	110			25-140	Pass	
4-Nitrophenol			%	101			25-140	Pass	
Dinoseb			%	61			25-140	Pass	
Phenol			%	105			25-140	Pass	
LCS - % Recovery									
Chromium (hexavalent)			%	88			70-130	Pass	
Cyanide (total)			%	89			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Ma0023049	NCP	%	88			70-130	Pass	
TRH C10-C14	M23-Ma0018686	NCP	%	119			70-130	Pass	
TRH C6-C10	M23-Ma0023049	NCP	%	89			70-130	Pass	
TRH >C10-C16	M23-Ma0018686	NCP	%	123			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Ma0023049	NCP	%	77			70-130	Pass	
Toluene	M23-Ma0023049	NCP	%	75			70-130	Pass	
Ethylbenzene	M23-Ma0023049	NCP	%	78			70-130	Pass	
m&p-Xylenes	M23-Ma0023049	NCP	%	78			70-130	Pass	
o-Xylene	M23-Ma0023049	NCP	%	81			70-130	Pass	
Xylenes - Total*	M23-Ma0023049	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Ma0023049	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N23-Ma0011230	NCP	%	119			70-130	Pass	
Acenaphthylene	N23-Ma0011230	NCP	%	125			70-130	Pass	
Anthracene	N23-Ma0011230	NCP	%	117			70-130	Pass	
Benz(a)anthracene	N23-Ma0011230	NCP	%	108			70-130	Pass	
Benzo(a)pyrene	N23-Ma0011230	NCP	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	N23-Ma0011230	NCP	%	118			70-130	Pass	
Benzo(g.h.i)perylene	N23-Ma0011230	NCP	%	98			70-130	Pass	
Benzo(k)fluoranthene	N23-Ma0011230	NCP	%	89			70-130	Pass	
Chrysene	N23-Ma0011230	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ma0011230	NCP	%	80			70-130	Pass	
Fluoranthene	N23-Ma0011230	NCP	%	83			70-130	Pass	
Fluorene	N23-Ma0011230	NCP	%	121			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ma0011230	NCP	%	111			70-130	Pass	
Naphthalene	N23-Ma0011230	NCP	%	96			70-130	Pass	
Phenanthrene	N23-Ma0011230	NCP	%	109			70-130	Pass	
Pyrene	N23-Ma0011230	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Ma0013363	NCP	%	75			75-125	Pass	
Cadmium	M23-Ma0013363	NCP	%	98			75-125	Pass	
Chromium	M23-Ma0013363	NCP	%	83			75-125	Pass	
Copper	M23-Ma0013363	NCP	%	84			75-125	Pass	
Lead	M23-Ma0013363	NCP	%	89			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	M23-Ma0013363	NCP	%	109			75-125	Pass	
Molybdenum	M23-Ma0013363	NCP	%	90			75-125	Pass	
Nickel	M23-Ma0013363	NCP	%	84			75-125	Pass	
Selenium	M23-Ma0013363	NCP	%	74			75-125	Fail	Q08
Silver	M23-Ma0013363	NCP	%	99			75-125	Pass	
Tin	M23-Ma0013363	NCP	%	89			75-125	Pass	
Zinc	M23-Ma0013363	NCP	%	81			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Ma0019491	CP	%	88			70-130	Pass	
4.4'-DDD	M23-Ma0019491	CP	%	103			70-130	Pass	
4.4'-DDE	M23-Ma0019491	CP	%	100			70-130	Pass	
4.4'-DDT	M23-Ma0019491	CP	%	99			70-130	Pass	
a-HCH	M23-Ma0019491	CP	%	99			70-130	Pass	
Aldrin	M23-Ma0019491	CP	%	115			70-130	Pass	
b-HCH	M23-Ma0019491	CP	%	72			70-130	Pass	
d-HCH	M23-Ma0019491	CP	%	86			70-130	Pass	
Dieldrin	M23-Ma0019491	CP	%	122			70-130	Pass	
Endosulfan I	M23-Ma0019491	CP	%	99			70-130	Pass	
Endosulfan II	M23-Ma0019491	CP	%	102			70-130	Pass	
Endosulfan sulphate	M23-Ma0019491	CP	%	96			70-130	Pass	
Endrin	M23-Ma0019491	CP	%	92			70-130	Pass	
Endrin aldehyde	M23-Ma0019491	CP	%	102			70-130	Pass	
Endrin ketone	M23-Ma0019491	CP	%	122			70-130	Pass	
g-HCH (Lindane)	M23-Ma0019491	CP	%	98			70-130	Pass	
Heptachlor	M23-Ma0019491	CP	%	127			70-130	Pass	
Heptachlor epoxide	M23-Ma0019491	CP	%	74			70-130	Pass	
Hexachlorobenzene	M23-Ma0019491	CP	%	97			70-130	Pass	
Methoxychlor	M23-Ma0019491	CP	%	99			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Ma0027204	NCP	%	72			70-130	Pass	
1.1.1-Trichloroethane	M23-Ma0019986	NCP	%	75			70-130	Pass	
1.2-Dichlorobenzene	M23-Ma0019986	NCP	%	77			70-130	Pass	
1.2-Dichloroethane	M23-Ma0019986	NCP	%	73			70-130	Pass	
Trichloroethene	M23-Ma0019986	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M23-Ma0013069	NCP	%	124			30-130	Pass	
2.4-Dichlorophenol	M23-Ma0013069	NCP	%	123			30-130	Pass	
2.4.5-Trichlorophenol	M23-Ma0013069	NCP	%	41			30-130	Pass	
2.4.6-Trichlorophenol	M23-Ma0013069	NCP	%	39			30-130	Pass	
2.6-Dichlorophenol	M23-Ma0013069	NCP	%	94			30-130	Pass	
4-Chloro-3-methylphenol	M23-Ma0013069	NCP	%	85			30-130	Pass	
Pentachlorophenol	M23-Ma0013069	NCP	%	35			30-130	Pass	
Tetrachlorophenols - Total	M23-Ma0013069	NCP	%	107			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M23-Ma0015879	NCP	%	95			30-130	Pass	
2-Nitrophenol	M23-Ma0013069	NCP	%	81			30-130	Pass	
2.4-Dimethylphenol	M23-Ma0013069	NCP	%	53			30-130	Pass	
2.4-Dinitrophenol	M23-Ma0015879	NCP	%	37			30-130	Pass	
2-Methylphenol (o-Cresol)	M23-Ma0013069	NCP	%	75			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M23-Ma0013069	NCP	%	78			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol	M23-Ma0015879	NCP	%	99			30-130	Pass	
Dinoseb	M23-Ma0015879	NCP	%	111			30-130	Pass	
Phenol	M23-Ma0013069	NCP	%	104			30-130	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M23-Ma0019945	NCP	%	106			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Ma0025986	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Ma0025986	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Ma0025986	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Ma0025986	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Ma0025986	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Ma0025986	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	L23-Ma0009775	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Ma0022245	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Ma0022245	NCP	mg/kg	0.14	0.13	3.0	30%	Pass	
4.4'-DDT	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Methoxychlor	M23-Ma0022245	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Ma0022245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Ma0019988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Ma0018684	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M23-Ma0018684	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M23-Ma0018684	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M23-Ma0018684	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M23-Ma0018684	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M23-Ma0018684	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M23-Ma0018684	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M23-Ma0018684	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M23-Ma0018684	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M23-Ma0018684	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M23-Ma0018684	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M23-Ma0018684	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M23-Ma0018684	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M23-Ma0018684	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M23-Ma0018684	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M23-Ma0018684	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M23-Ma0018684	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M23-Ma0018684	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M23-Ma0018684	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M23-Ma0019945	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Cyanide (total)	M23-Ma0013364	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	M23-Ma0023489	NCP	pH Units	7.2	7.4	pass	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Ma0019494	CP	%	7.6	7.8	3.8	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Ma0019495	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M23-Ma0019495	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M23-Ma0019495	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M23-Ma0019495	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M23-Ma0019495	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M23-Ma0019495	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M23-Ma0019495	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Ma0019497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Ma0019497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Ma0019497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Ma0019497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Ma0019497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Ma0019497	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Ma0019497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Ma0019497	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Ma0019497	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Ma0019504	CP	%	17	19	11	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

Harry Bacalis	Analytical Services Manager
Carroll Lee	Senior Analyst-Volatile
Edward Lee	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties
Scott Beddoes	Senior Analyst-Inorganic
Scott Beddoes	Senior Analyst-Metal

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Sample Receipt Advice

Company name:	DRC Environmental Pty Ltd
Contact name:	- CC SRA Patrick Baldwin
Project name:	485 GOLF LINKS RD LANGWARRIN SOUTH
Project ID:	Not provided
Turnaround time:	5 Day
Date/Time received	Mar 8, 2023 2:38 PM
Eurofins reference	970132

Sample Information

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

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to - CC SRA Patrick Baldwin - patrick@drcenviro.com.au.

Note: A copy of these results will also be delivered to the general DRC Environmental Pty Ltd email address.

WOODLEIGH

3201 YEAR 10 REGENERATIVE FUTURES STUDIO

485 GOLF LINKS RD
LANGWARRIN
SOUTH 3911

Sheet List_TOWN PLANNING			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
TP00	COVER PAGE	A	Date 1
TP010	EXISTING SITE PLAN	A	Date 1
TP015	DEMOLITION PLAN	A	Date 1
TP050	SITE PLAN	A	Date 1
TP100	GROUND FLOOR PLAN	A	Date 1
TP110	ROOF PLAN	A	Date 1
TP201	ELEVATIONS	A	Date 1
TP202	ELEVATIONS	A	Date 1
TP301	BUILDING SECTIONS	A	Date 1
TP302	BUILDING SECTIONS	A	Date 1
TP401	EXTERNAL FINISHES	A	Date 1

1 / TP00 TP - CONTEXT PLAN
1 : 1500

TOWN PLANNING

ADVERTISED PLAN

REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

DO NOT SCALE OFF DRAWINGS. USE FIGURED DIMENSIONS ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK OR PREPARING SHOP DRAWINGS

DRAWINGS TO BE PRINTED IN COLOUR.

NORTH POINT

CLIENT
WOODLEIGH

ARCHITECTURAL CONSULTANT
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info@mcildowiepartners.com.au
Level 5, 185 Flinders Lane
Melbourne, Vic 3000

NOTES

PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

TITLE
COVER PAGE

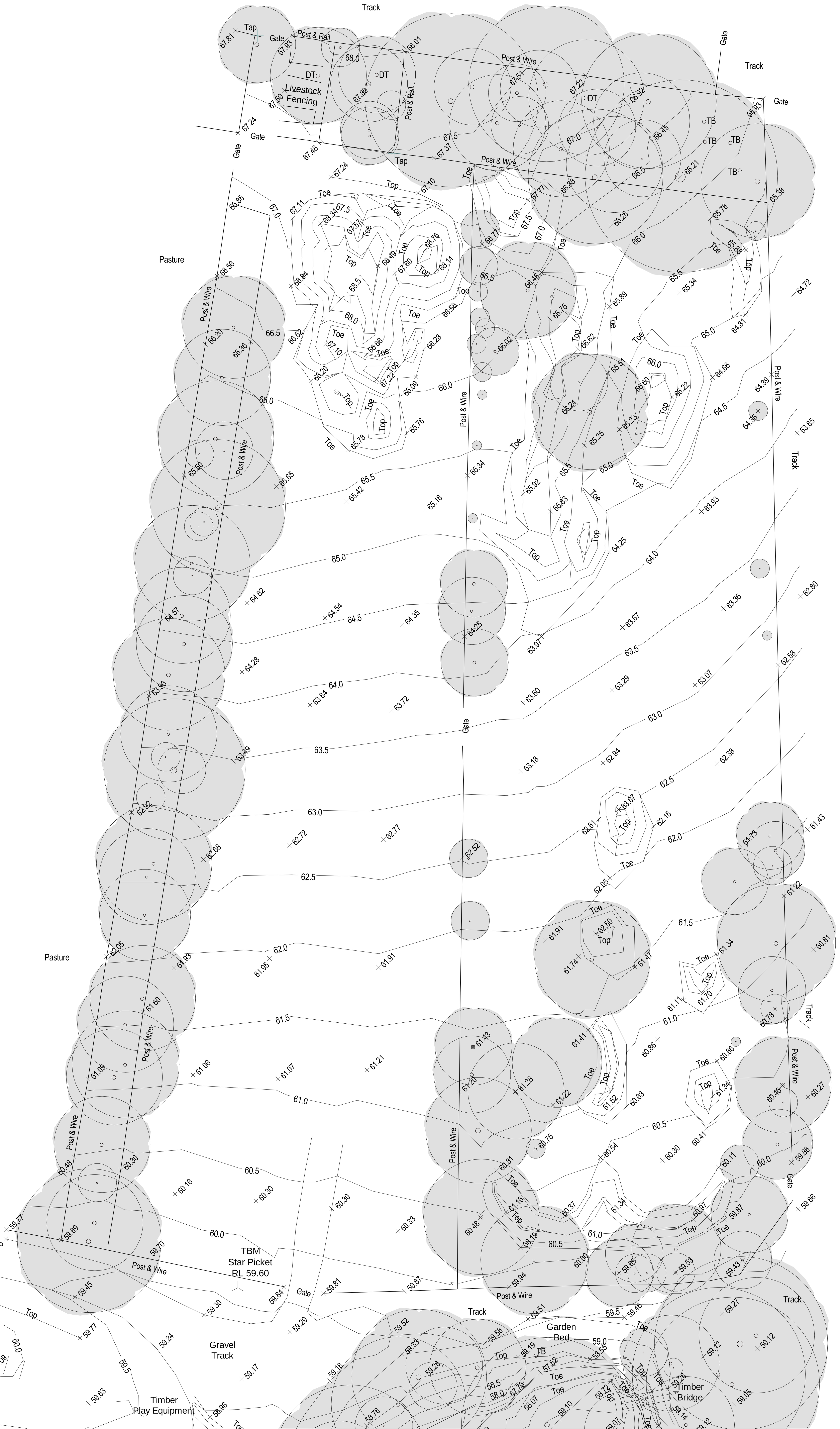
FILE
S:\Projects\32000\3201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
3201	1 : 1500	Date 1	Author	Checker

DRAWING NUMBER:
TP00

REVISION:
A

ADVERTISED PLAN



1 TP010_SITE SURVEY
TP010
1 : 250

AERIAL VIEW FROM NORTH

AERIAL VIEW FROM EAST

AERIAL VIEW FROM SOUTH

AERIAL VIEW FROM WEST

AMENDMENTS:

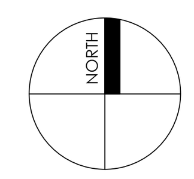
REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

DO NOT SCALE OFF DRAWINGS. USE FIGURED DIMENSIONS ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK OR PREPARING SHOP DRAWINGS

DRAWINGS TO BE PRINTED IN COLOUR.

LEGEND

NORTH POINT



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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

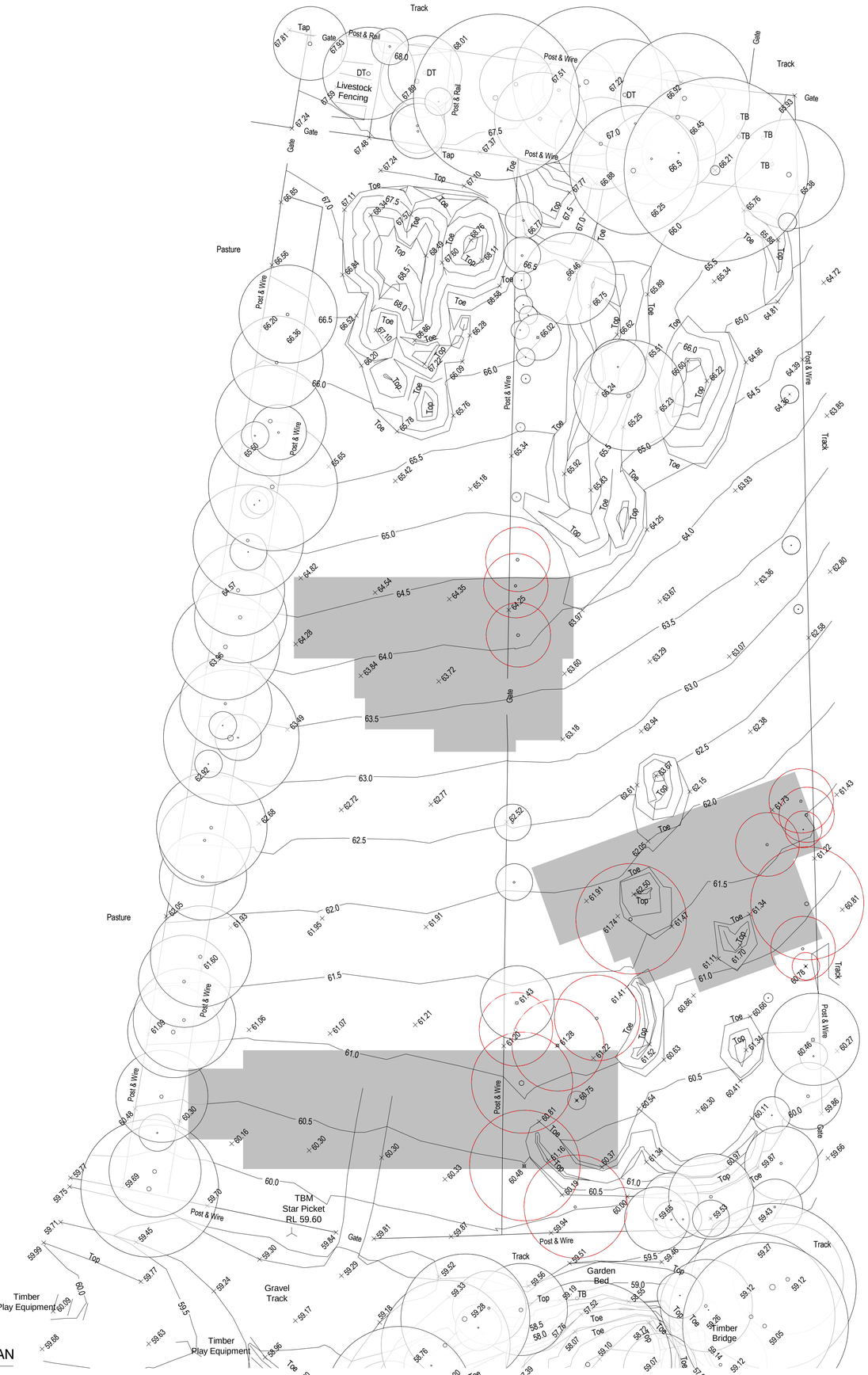
DRAWING STATUS

TITLE
EXISTING SITE PLAN

DRAWING NUMBER:
TP010

FILE
S:\Projects\3200\3201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:	REVISION:
3201	As indicated	Date 1	Author	Checker	A



1 DEMOLITION PLAN
TP015
1 : 250

AMENDMENTS:

REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

DRAWING STATUS

TITLE
DEMOLITION PLAN

DRAWING NUMBER:
TP015

FILE
S:\Projects\32000\3201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

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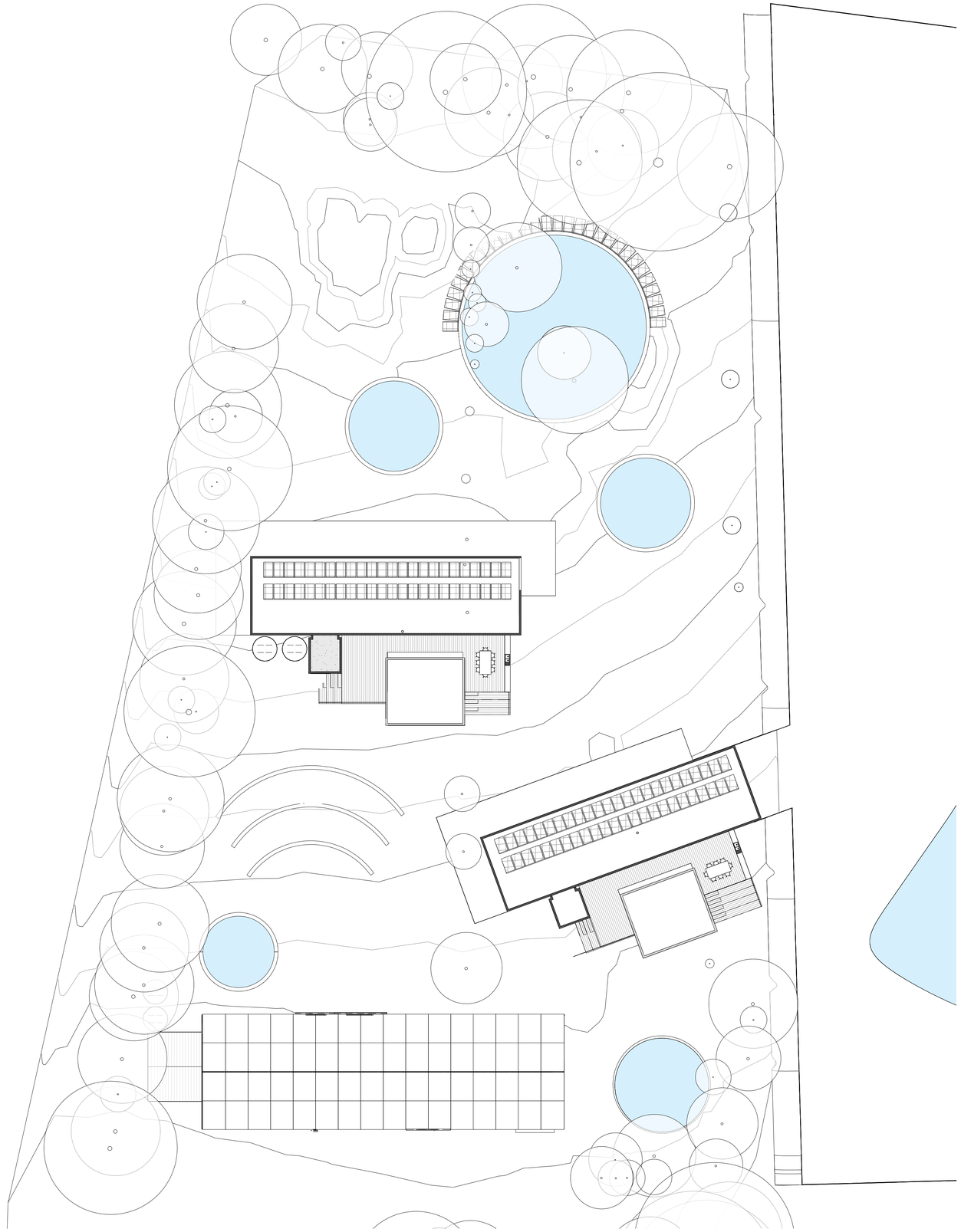
3201	1 : 250	Date 1	Author	Checker	A



ADVERTISED
PLAN

1 Site Plan Proposed
TP050
1 : 250

REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

NORTH POINT

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TOWN PLANNING

PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
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TITLE
SITE PLAN

FILE
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JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
3201	1 : 250	Date 1	Author	Checker

DRAWING NUMBER:
TP050

REVISION:
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AMENDMENTS:

REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

PROJECT ADDRESS
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LANGWARRIN SOUTH 3911

DRAWING STATUS

TITLE
GROUND FLOOR PLAN

DRAWING NUMBER:
TP100

FILE
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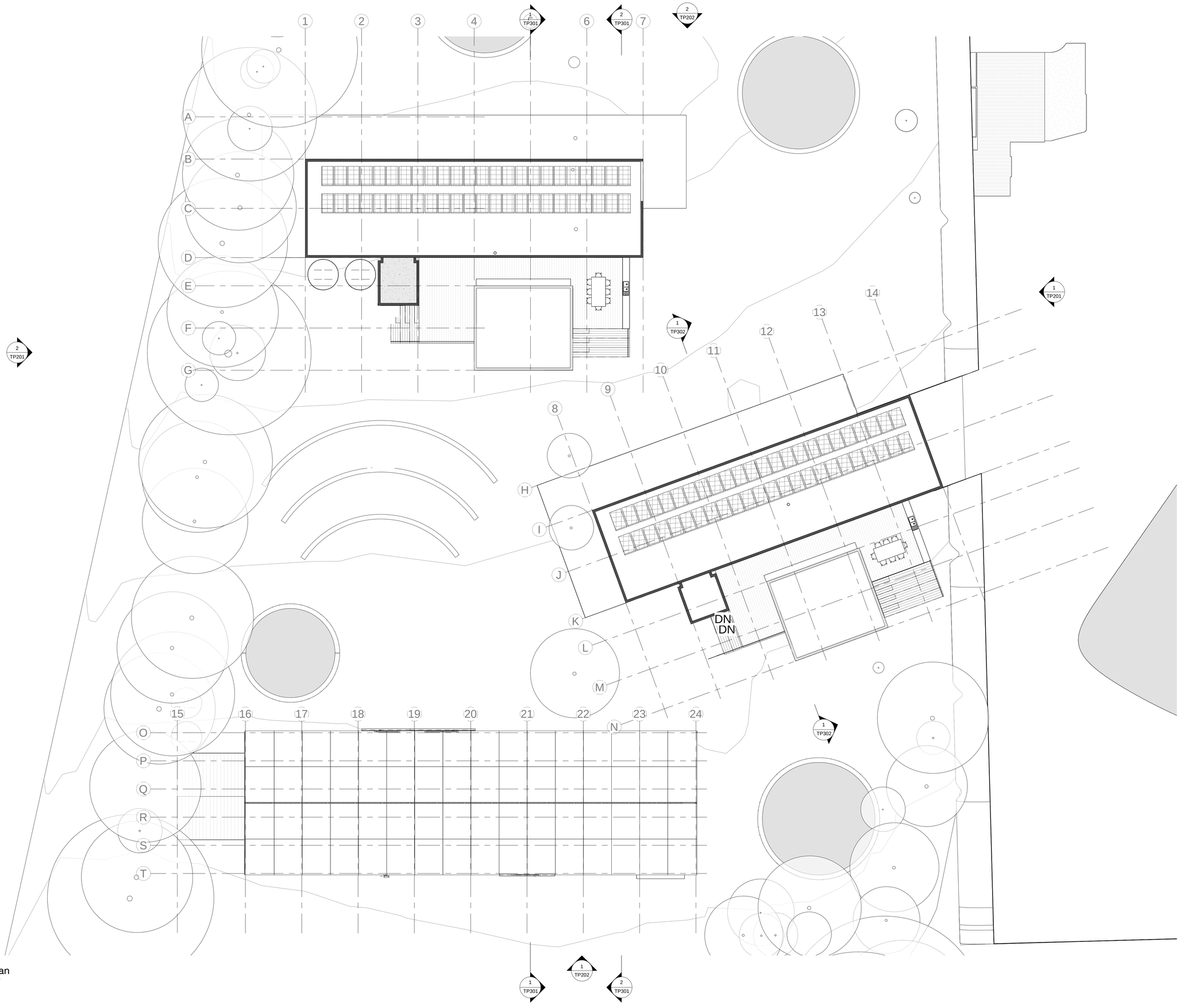

1 TP110 Roof Plan

1 : 150

AMENDMENTS:

REV	DESCRIPTION OF CHANGE	DATE
A	TOWN PLANNING DRAFT SET	Date 1

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LEGEND

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NORTH POINT

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PROJECT

YEAR 10 REGENERATIVE FUTURES STUDIO

PROJECT ADDRESS

485 GOLF LINKS RD
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DRAWING STATUS

TITLE

ROOF PLAN

DRAWING NUMBER:

TP110

FILE

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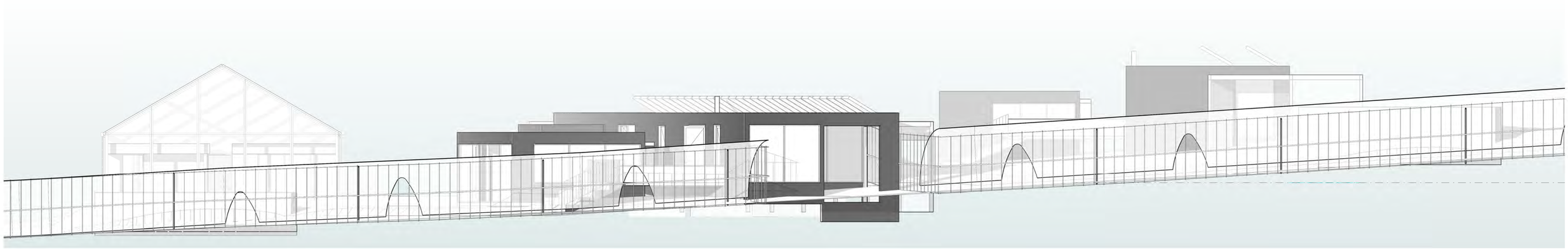
3201	1 : 150	Date 1	Author	Checker	A



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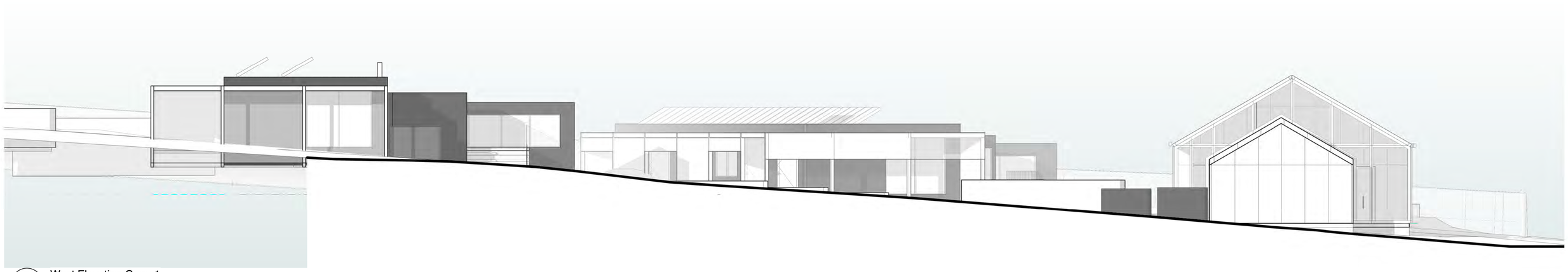

2 TP201 West Elevation Copy 1

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TOWN PLANNING

REV	DESCRIPTION OF CHANGE	DATE
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NOTES

PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

TITLE
ELEVATIONS

FILE
S:\Projects\32003\3201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
3201	1 : 100	Date 1	Author	Checker

DRAWING NUMBER:
TP201

REVISION:
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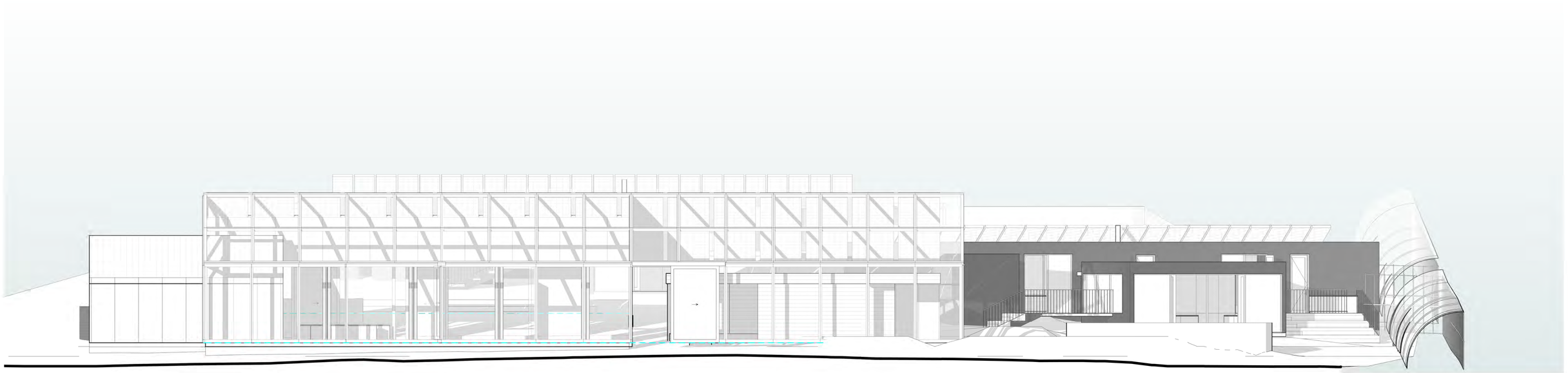

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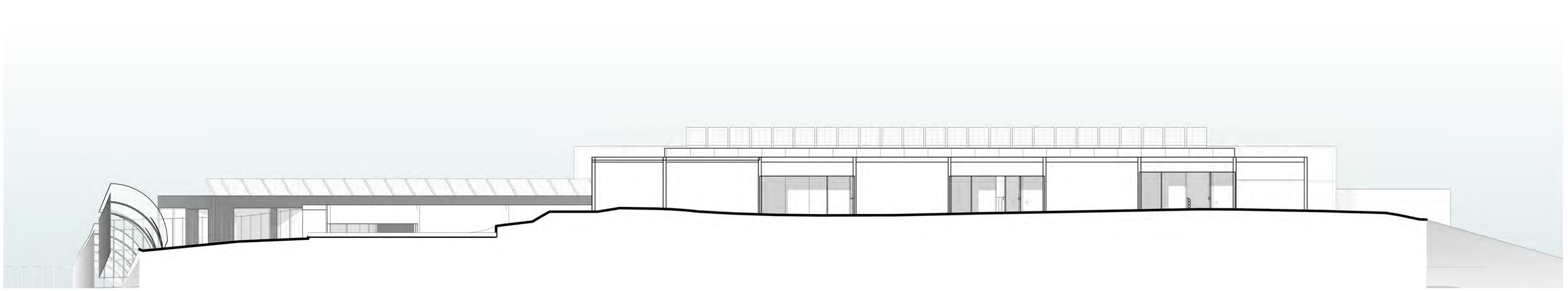

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TOWN PLANNING

REV	DESCRIPTION OF CHANGE	DATE
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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

TITLE
ELEVATIONS

FILE
S:\Projects\32003201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
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DRAWING NUMBER:
TP202

REVISION:
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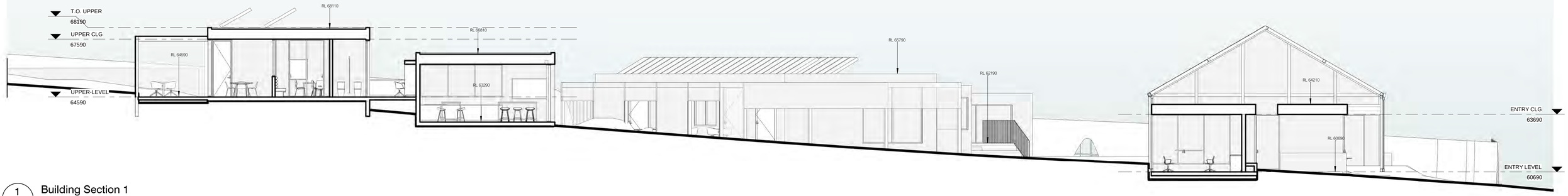
ADVERTISED
PLAN



1 TP301 Building Section 1

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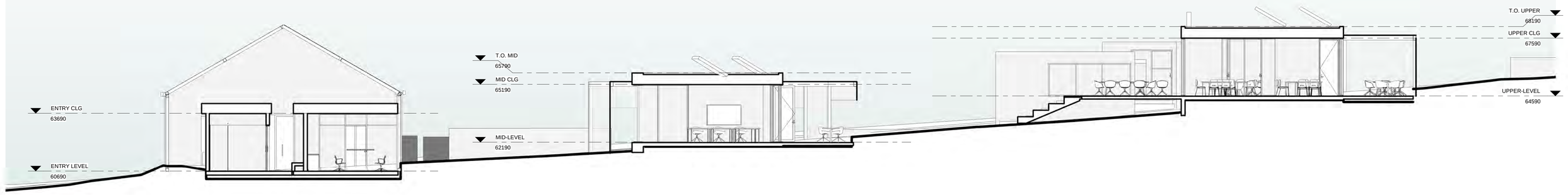

2 TP301 Building Section 2

1 : 100

TOWN PLANNING

REV	DESCRIPTION OF CHANGE	DATE
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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
LANGWARRIN SOUTH 3911

TITLE
BUILDING SECTIONS

FILE
S:\Projects\32003201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
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DRAWING NUMBER:
TP301

REVISION:
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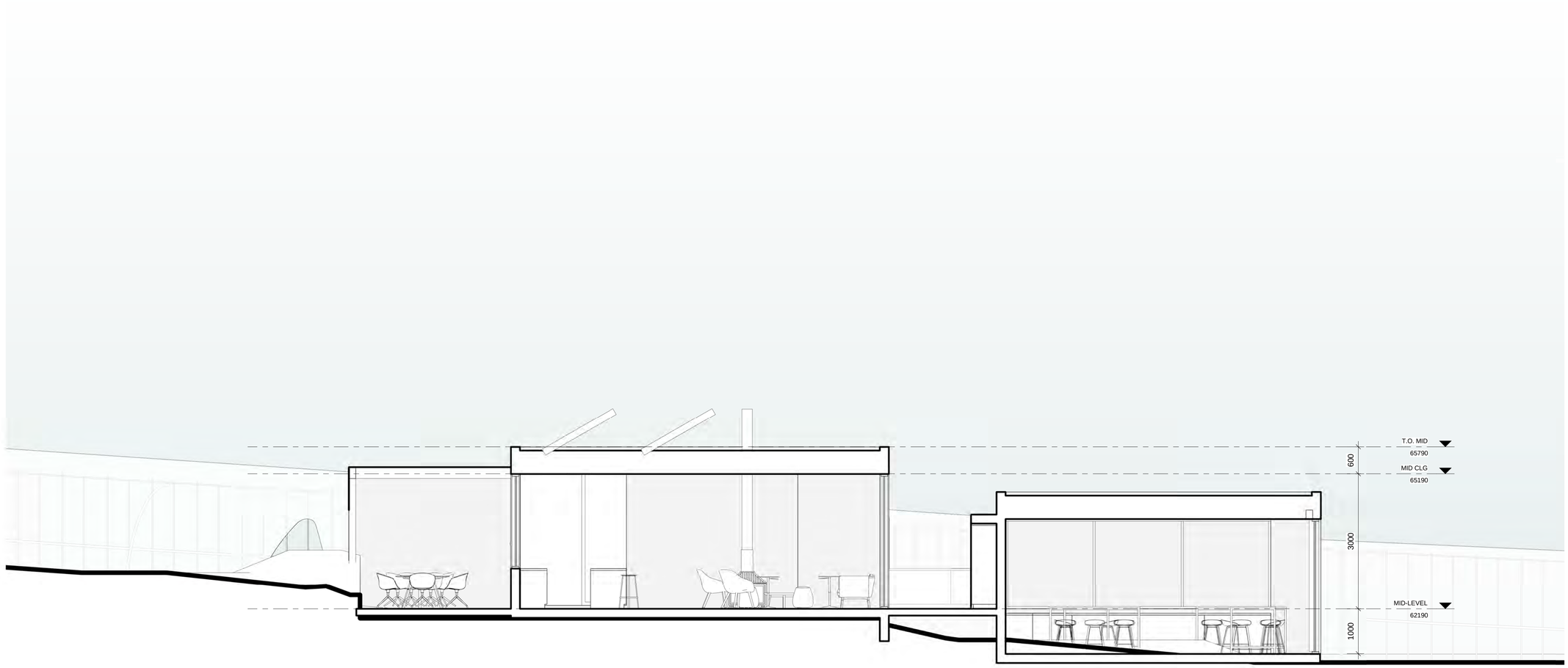
PLAN



1 TP302 Building Section 3

1 : 50

TOWN PLANNING

REV	DESCRIPTION OF CHANGE	DATE
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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
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TITLE
BUILDING SECTIONS

FILE
S:\Projects\3200\3201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures _ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
3201	1 : 50	Date 1	Author	Checker

DRAWING NUMBER:
TP302

REVISION:
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TOWN PLANNING

REV	DESCRIPTION OF CHANGE	DATE
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PROJECT
YEAR 10 REGENERATIVE FUTURES STUDIO

DRAWING STATUS

PROJECT ADDRESS
485 GOLF LINKS RD
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TITLE
EXTERNAL FINISHES

FILE
S:\Projects\32003201 - Woodleigh Year 10 Studio\CAD\Revit\Central File\230314 Woodleigh Year 10 Regenerative Futures_ Concept Design.rvt

JOB NO:	SCALE@A1:	REV DATE:	DRAWN:	CHECK:
3201		Date 1	Author	Checker

DRAWING NUMBER:
TP401

REVISION:
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