

APPENDIX J: EQUIPMENT CALIBRATION CERTIFICATES

PID Calibration Certificate

Instrument PhoCheck Tiger
Serial No. T-114149



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm		
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No		Instrument Reading
PID Lamp		96ppm Isobutylene	NIST	ME468		96ppm Isobutylene

Calibrated by: _____ Yu Chee

Calibration date: 24/03/2020

Next calibration due: 20/09/2020



Instrument	Interface Meter (30M)
Serial No.	288095

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Compartment Capacity above 7.9V	✓ ✓	
Probe	Cleaned/Decon. Operation	✓ ✓	
Connectors	Condition	✓ ✓	
Tape Check Connectors	Cleaned Checked for cuts	✓ ✓	
Instrument Test	At surface level	✓	
			Serviced

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Tested by: Kyeson Chin

Test date: 25/03/2020

Next Test due: 21/09/2020

Multi Parameter Water Meter

Instrument YSI Quatro Pro Plus
Serial No. 19D105090

**airmet**

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0 ppm		1806267729	0 ppm
2. Conductivity		2760uS		326685	2760uS
3. pH7		pH 7.00		330737	pH 7.00
4. pH4		pH 4.00		330734	pH 4.00
5. ORP mV		232.46		334880 / 334881	232.46
6. Temp °C		20.7		163377	20.7

Calibrated by:

Lucinda Palmer

Calibration date:

3-Apr-20

Next calibration due:

30-Sep-20

Oil / Water Interface Meter

Instrument Geotech Interface Meter (30M)
Serial No. 3984

**airmet**

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity above	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check Connectors	Cleaned	✓	
	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by: _____ **Kyeson Chin**

Calibration date: 03-Apr-20

Next calibration due: 30-Sep-20

APPENDIX K: WASTE TRANSPORT CERTIFICATES

Certificate No. 0050856403

Part A: Completed by the Producer of Waste

Name of Waste Producer			
PVM ENTERPRISES PTY LTD (100 available)			
Address of Site of Waste Source			Waste origin
118 SWANN DR, DERRIMUT VIC 3026			
Name of Emergency Contact			Emergency Contact Phone
Mr. Matthew Leech			(03)93578310
Consignment No	Waste Code No		Class
	P T130		N/A
Packing Group	U.N. Number		
N/A	30XY		
Description of Waste			
Soil Drilling Mud			
Hazard Category	Contaminants	Bulk/No. of Packages	Amount of Waste
N		3	600 L
Producer Comments			
Glenlyon Recreation Reserve - Dysart Street - Glenlyon 3461 Contact : Paul Phone: 0412 061 205			
Proposed Disposal / Treatment / Storage Site			State
ORGANIC ENVIRONMENTAL SOLUTIONS PTY LTD [DANDENONG SOUTH]			VIC
Intended Disposal Option	Proposed Waste Transporter		
Chem/Phys Treatment	PVM ENTERPRISES PTY LTD		
I declare that to the best of my knowledge and belief, the above information is true and correct		Submitted by	Date
		Mr. Matthew Leech	09/04/2020

Part B: Completed by the Transporter of Waste

Name of Transporter			
PVM ENTERPRISES PTY LTD			
Address of Transporter			
118 SWANN DR, DERRIMUT VIC 3026			
Vehicle Registration	Transport Permit No	Trailer Registration	Trailer Permit No
XV24JU	212756		
I acknowledge receipt of the waste described in Part A		Driver's Name	Date
		Vince Sciulli	09/04/2020

Part C: Completed by the Waste Receiver

Name of Disposal/Treatment/Storage Facility		
ORGANIC ENVIRONMENTAL SOLUTIONS PTY LTD [DANDENONG SOUTH]		
Address		Licence No
26-28 Souffi PL, DANDENONG SOUTH VIC 3175		48424
Waste Received Date	Type of Treatment	Amount of Waste
09/04/2020	D9C	600 L
Are there any discrepancies between the wastes described above and the waste received		
☐ Yes ☒ No Discrepancy:		
Waste Receiver Other		Final intended disposal option
Address		State
		NONE
I acknowledge receipt of the waste described in Part A		Submitted by
		Mr. Paul Gniatkiewicz
		Date
		16/04/2020

Certificate No. 0050856409

Part A: Completed by the Producer of Waste

Name of Waste Producer			
PVM ENTERPRISES PTY LTD (100 available)			
Address of Site of Waste Source			Waste origin
118 SWANN DR, DERRIMUT VIC 3026			
Name of Emergency Contact			Emergency Contact Phone
Mr. Matthew Leech			(03)93578310
Consignment No	Waste Code No		Class
	L	L150	N/A
Packing Group	U.N. Number		
N/A	30XY		
Description of Waste			
Industrial Wash Waters			
Hazard Category	Contaminants	Bulk/No. of Packages	Amount of Waste
N		1	200 L
Producer Comments			
Glenlyon Recreation Reserve - Dysart Street, Glenlyon Victoria 3461 Phone - Paul 0412 061 205			
Proposed Disposal / Treatment / Storage Site			State
ORGANIC ENVIRONMENTAL SOLUTIONS PTY LTD [DANDENONG SOUTH]			VIC
Intended Disposal Option	Proposed Waste Transporter		
Chem/Phys Treatment	PVM ENTERPRISES PTY LTD		
I declare that to the best of my knowledge and belief, the above information is true and correct		Submitted by	Date
		Mr. Matthew Leech	09/04/2020

Part B: Completed by the Transporter of Waste

Name of Transporter			
PVM ENTERPRISES PTY LTD			
Address of Transporter			
118 SWANN DR, DERRIMUT VIC 3026			
Vehicle Registration	Transport Permit No	Trailer Registration	Trailer Permit No
XV24JU	212756		
I acknowledge receipt of the waste described in Part A		Driver's Name	Date
		Vince Sciulli	09/04/2020

Part C: Completed by the Waste Receiver

Name of Disposal/Treatment/Storage Facility		
ORGANIC ENVIRONMENTAL SOLUTIONS PTY LTD [DANDENONG SOUTH]		
Address		Licence No
26-28 Souffi PL, DANDENONG SOUTH VIC 3175		48424
Waste Received Date	Type of Treatment	Amount of Waste
09/04/2020	D9C	200 L
Are there any discrepancies between the wastes described above and the waste received		
☐ Yes ☒ No Discrepancy:		
Waste Receiver Other		Final intended disposal option
Address		State
		NONE
I acknowledge receipt of the waste described in Part A		Submitted by
		Mr. Paul Gniatkiewicz
		Date
		16/04/2020

APPENDIX L: SURVEY REPORT

Letter Report
Glenlyon Reserve, Glenlyon



Access Utility Engineering Pty Ltd

Phone: 03 9770 8688

Address: Unit 8 / 47-49 Frankston Gardens Drive,
Carrum Downs 3201

AUE is pleased to provide the Surveyed findings for the Monitoring Well Installation works Glenlyon Reserve, Glenlyon.

Point Name	Easting	Northing	Top of Casing	Surface Level
MW01	256221.534	5868757.79	530.089	530.14
MW02	256494.725	5868647.702	531.991	532.111
MW03	256554.633	5868824.254	534.092	534.246
MW04	256387.554	5868823.219	532.567	532.614
Glenlyon PM 9	255845.07	5869063.53	543.164	

All points where surveyed to GDA 2020 Z55, AHD and Calibrated to Datum Point Glenlyon PM 09.

This Survey has been conducted under AUE standard practices; all information provided is subject to AUE terms of trade. All point labels are provided based on the clients requests.

This Letter Report was prepared by

Chris Sandlant
Access Utility Engineering
Chris.sandlant@accessue.com.au

APPENDIX M: PREVIOUS RESULTS TABLES

6	<5	19	<3	<5	21	<5
5	<5	17	<3	<5	23	<5

	≤ 5	13	≤ 3	≤ 5	≤ 5
1	≤ 5	41	≤ 3	≤ 5	28
2	≤ 5	21	≤ 3	≤ 5	39
3	≤ 5	11	≤ 3	≤ 5	20
4	≤ 5	4	≤ 3	≤ 5	20

Table 01
Soil Chemical Testing Results

[illegible]

Table 01
Soil Chemical Testing Results



		Organochlorine Pesticides																										
	Endrin	Endrin + Dieldrin	γ-BHC	δ-BHC	Endrin	γ-BHC	δ-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	A-α-DDE	DDD	DDT	DDT+DDE+DDD	Indosulfan	Indosulfan I	Indosulfan II	Indosulfan sulphate	Endrin	Endrin aldehyde	Heptachlor ketone	Heptachlor epoxide	Heptachlor (including its epoxide)	Hexachlorobenzene	Methoxychlor	γ-Hydrchlorethane	Organochlorine pesticide	Other organochlorine pesticides
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																												
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																												
NEPM Amendment 2013 ESL (urban residential/public open space) - fine																												
NEPM Amendment 2013 ESL (urban residential/public open space) - coarse																												
NEPM Amendment 2013 HIL/JHSI A																												
CRC CARE 2011 Vapour Intrusion HSL A																												
CRC CARE 2011 Direct Contact HSL A																												
NEPM Amendment 2013 HIL/JHSI B																												
CRC CARE 2011 Vapour Intrusion HSL B																												
CRC CARE 2011 Direct Contact HSL B																												
NEPM Amendment 2013 HIL/JHSI C																												
CRC CARE 2011 Vapour Intrusion HSL C																												
CRC CARE 2011 Direct Contact HSL C																												
NEPM Amendment 2013 HIL/JHSI D																												
CRC CARE 2011 Vapour Intrusion HSL D																												
CRC CARE 2011 Direct Contact HSL D																												
USEPA - Region 3 5% Residential Soil																												
AS 2159-2009 Piling - Design and Installation - Soil																												
EPA IWRC 621 Category A Upper Limit																												
EPA IWRC 621 Category B Upper Limit																												
EPA IWRC 621 Fill Material Upper Limit																												
Field ID	LeCode	Sample	Depth	Range	Sample Date/Time																							
191030-S501	0-0.1	191030-S501	0-0.1		30/10/2019																							
191030-S502	S502				30/10/2019																							
191030-S503	S503				30/10/2019																							
191030-S504	S504				30/10/2019																							
191030-S505	S505				30/10/2019																							
191030-S506	S506				30/10/2019																							
191030-S507	S507				30/10/2019																							
191030-S508	S508				30/10/2019																							
191030-S509	S509				30/10/2019																							
191030-S510	S510				30/10/2019																							
191030-S511	S511				30/10/2019																							
191030-S512	S512				30/10/2019																							
191030-S513	S513				30/10/2019																							
191030-S514	S514				30/10/2019																							
191030-S515	S515				30/10/2019																							
191030-S516	S516				30/10/2019																							
191030-S517	S517				30/10/2019																							
191030-S518	S518				30/10/2019																							
191030-S519	S519				30/10/2019																							
191030-S520	S520				30/10/2019																							
191030-S521	S521				30/10/2019																							
191030-S522	S522				30/10/2019																							
191030-S523	S523				30/10/2019																							
191030-S524	S524				30/10/2019																							
191030-S525	S525				30/10/2019																							
191030-S526	S526				30/10/2019																							
191030-S527	S527				30/10/2019																							
191030-S528	S528				30/10/2019																							
191030-S529	S529				30/10/2019																							
191030-S530	S530				30/10/2019																							

Table 01
Soil Chemical Testing Results

Field ID	LocCode	Sample Depth	Range	Sample Date/Time	TPH			TRH					BTEX					MAH						
					66-C9	110-C14	115-C18	129-C36	110-C36 (sum of total)	66-C10	66-C10 less BTEX (F1)	110-C16	110-C16 less Naphthalene (F2)	116-C34	134-C40	110-C40 (sum of total)	1-methylbenzene	toluene	total BTEX	Xylene (m & p)	Xylene (o)	Xylene Total	1,2,4-trimethylbenzene	styrene
EQ1					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NEMP Amendment 2013 EIL (urban residential/public open space) - aged					20	20	50	50	mg/kg	20	20	20	20	20	20	50	50	1	0.5	45	0.5	0.5	0.5	23/6/01
NEMP Amendment 2013 EIL (urban residential/public open space) - fine									180															
NEMP Amendment 2013 EIL (urban residential/public open space) - coarse									180															
NEMP Amendment 2013 HI/HSL A									180															
NEMP Amendment 2013 HI/HSL A									180															
NEMP Amendment 2013 HI/HSL B									440															
NEMP Amendment 2013 HI/HSL B									440															
NEMP Amendment 2013 HI/HSL C									440															
NEMP Amendment 2013 HI/HSL C									440															
NEMP Amendment 2013 HI/HSL D									5100															
NEMP Amendment 2013 HI/HSL D									250															
USEPA 5.6.9 - Region 5 Soil									2600															
AS 2159-2009 Piling, Design and Installation - Soil																								
EPA WRC 621 Category B Upper Limit									4000															
EPA WRC 621 Hill Material Upper Limit									1000															
30/10/2019	5501	0-0.1																						
30/10/2019	5502	0-0.1																						
30/10/2019	5503	0-0.1																						
30/10/2019	5504	0-0.1																						
30/10/2019	5505	0-0.1																						
30/10/2019	5506	0-0.1																						
30/10/2019	5507	0-0.1																						
30/10/2019	5508	0-0.1																						
30/10/2019	5509	0-0.1																						
30/10/2019	5510	0-0.1																						
30/10/2019	5511	0-0.1																						
30/10/2019	5512	0-0.1																						
30/10/2019	5513	0-0.1																						
30/10/2019	5514	0-0.1																						
30/10/2019	5515	0-0.1																						
30/10/2019	5516	0-0.1																						
30/10/2019	5517	0-0.1																						
30/10/2019	5518	0-0.1																						
30/10/2019	5519	0-0.1																						
30/10/2019	5520	0-0.1																						
30/10/2019	5521	0-0.1																						
30/10/2019	5522	0-0.1																						
30/10/2019	5523	0-0.1																						
30/10/2019	5524	0-0.1																						
30/10/2019	5525	0-0.1																						
30/10/2019	5526	0-0.1																						
30/10/2019	5527	0-0.1																						
30/10/2019	5528	0-0.1																						
30/10/2019	5529	0-0.1																						
30/10/2019	5530	0-0.1																						

Table 01
Soil Chemical Testing Results



Halogenated Volatile Organics																																			
mg/kg	1,1,1,2-tetrachloroethane	mg/kg	1,1,1-trichloroethane	mg/kg	1,1,2,2-tetrachloroethane	mg/kg	1,1,2-trichloroethane	mg/kg	1,1-dichloroethane	mg/kg	1,1-dichloroethene	mg/kg	1,1-dichloropropene	mg/kg	1,2,3-trichloropropene	mg/kg	1,2-dibromo-3-chloropropane	mg/kg	1,2-dichloroethane (EDB)	mg/kg	1,2-dichloroethane (1,2-DCA)	mg/kg	1,2-dichloroethene [cis]	mg/kg	1,2-dichloroethene [trans]	mg/kg	1,2-dichloropropene	mg/kg	2-chlorotoluene	mg/kg	4-chlorotoluene	mg/kg	1,3-dichloropropene [cis]	mg/kg	1,3-dichloropropene [trans]
0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
																							NEM Amendment 2013 EIL (urban residential/public open space) - aged												
																							NEM Amendment 2013 EIL (urban residential/public open space) - fresh												
																							NEM Amendment 2013 EIL (urban residential/public open space) - fine												
																							NEM Amendment 2013 EIL (urban residential/public open space) - coarse												
																							NEM Amendment 2013 HI/HSL A												
																							CRC CARE 2011 Vapour Intrusion HSL A												
																							CRC CARE 2011 Direct Contact HSL A												
																							NEM Amendment 2013 HI/HSL B												
																							CRC CARE 2011 Vapour Intrusion HSL B												
																							CRC CARE 2011 Direct Contact HSL B												
																							NEM Amendment 2013 HI/HSL C												
																							CRC CARE 2011 Direct Contact HSL C												
																							NEM Amendment 2013 HI/HSL D												
																							CRC CARE 2011 Vapour Intrusion HSL D												
																							CRC CARE 2011 Direct Contact HSL D												
																							USEPA - Region 3.6.9 - Residential Soil												
																							AS 2159-2009 Piling - Design and Installation - Soil												
																							EPA WRRG 621 Category 8 Upper Limit												
																							EPA WRRG 621 FI Material Upper Limit												
																							EPA WRRG 621 FI Material Upper Limit												

Field ID	LocCode	Sample Depth Range	Sampled Date/Time
191030-SS01	S501	0-0.1	30/10/2019
191030-SS02	S502	0-0.1	30/10/2019
191030-SS03	S503	0-0.1	30/10/2019
191030-SS04	S504	0-0.1	30/10/2019
191030-SS05	S505	0-0.1	30/10/2019
191030-SS06	S506	0-0.1	30/10/2019
191030-SS07	S507	0-0.1	30/10/2019
191030-SS08	S508	0-0.1	30/10/2019
191030-SS09	S509	0-0.1	30/10/2019
191030-SS10	S510	0-0.1	30/10/2019
191030-SS11	S511	0-0.1	30/10/2019
191030-SS12	S512	0-0.1	30/10/2019
191030-SS13	S513	0-0.1	30/10/2019
191030-SS14	S514	0-0.1	30/10/2019
191030-SS15	S515	0-0.1	30/10/2019
191030-SS16	S516	0-0.1	30/10/2019
191030-SS17	S517	0-0.1	30/10/2019
191030-SS18	S518	0-0.1	30/10/2019
191030-SS19	S519	0-0.1	30/10/2019
191030-SS20	S520	0-0.1	30/10/2019
191030-SS21	S521	0-0.1	30/10/2019
191030-SS22	S522	0-0.1	30/10/2019
191030-SS23	S523	0-0.1	30/10/2019
191030-SS24	S524	0-0.1	30/10/2019
191030-SS25	S525	0-0.1	30/10/2019
191030-SS26	S526	0-0.1	30/10/2019
191030-SS27	S527	0-0.1	30/10/2019
191030-SS28	S528	0-0.1	30/10/2019
191030-SS29	S529	0-0.1	30/10/2019
191030-SS30	S530	0-0.1	30/10/2019

Table 01
Soil Chemical Testing Results

Halogenated Volatile Organics2													
Bromobenzene	Bromodichloromethane	Bromochloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroform	Dibromomethane	Dichloromethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Trihalomethanes	Trichlorofluoromethane
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	1
EQIL													
NEPM Amendment 2013 EIL (urban residential/public open space) - aged													
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh													
NEPM Amendment 2013 ESL (urban residential/public open space) - fine													
NEPM Amendment 2013 ESL (urban residential/public open space) - coarse													
NEPM Amendment 2013 HI/HSL A													
CRC CARE 2011 Vapour Intrusion HSL A													
CRC CARE 2011 Direct Contact HSL A													
NEPM Amendment 2013 HI/HSL B													
CRC CARE 2011 Vapour Intrusion HSL B													
CRC CARE 2011 Direct Contact HSL B													
NEPM Amendment 2013 HI/HSL C													
CRC CARE 2011 Direct Contact HSL C													
NEPM Amendment 2013 HI/HSL D													
CRC CARE 2011 Vapour Intrusion HSL D													
CRC CARE 2011 Direct Contact HSL D													
USEPA - Region 3.6.9 - Residential Soil													
AS 2159-2009 Piling - Design and Installation - Soil													
EPA IWRS 621 Category B Upper Limit													
EPA IWRS 621 Category C Upper Limit													
EPA IWRS 621 Fill Material Upper Limit													
Field ID	LocCode	Sample Depth	Range	Sampled Date/Time									
191030-S501	S501	0-0.1		30/10/2019									
191030-S502	S502	0-0.1		30/10/2019									
191030-S503	S503	0-0.1		30/10/2019									
191030-S504	S504	0-0.1		30/10/2019									
191030-S505	S505	0-0.1		30/10/2019									
191030-S506	S506	0-0.1		30/10/2019									
191030-S507	S507	0-0.1		30/10/2019									
191030-S508	S508	0-0.1		30/10/2019									
191030-S509	S509	0-0.1		30/10/2019									
191030-S510	S510	0-0.1		30/10/2019									
191030-S511	S511	0-0.1		30/10/2019									
191030-S512	S512	0-0.1		30/10/2019									
191030-S513	S513	0-0.1		30/10/2019									
191030-S514	S514	0-0.1		30/10/2019									
191030-S515	S515	0-0.1		30/10/2019									
191030-S516	S516	0-0.1		30/10/2019									
191030-S517	S517	0-0.1		30/10/2019									
191030-S518	S518	0-0.1		30/10/2019									
191030-S519	S519	0-0.1		30/10/2019									
191030-S520	S520	0-0.1		30/10/2019									
191030-S521	S521	0-0.1		30/10/2019									
191030-S522	S522	0-0.1		30/10/2019									
191030-S523	S523	0-0.1		30/10/2019									
191030-S524	S524	0-0.1		30/10/2019									
191030-S525	S525	0-0.1		30/10/2019									
191030-S526	S526	0-0.1		30/10/2019									
191030-S527	S527	0-0.1		30/10/2019									
191030-S528	S528	0-0.1		30/10/2019									
191030-S529	S529	0-0.1		30/10/2019									
191030-S530	S530	0-0.1		30/10/2019									

Bromobenzene	Bromodichloromethane	Bromochloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroform	Dibromomethane	Dichloromethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Trihalomethanes	Trichlorofluoromethane	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
300	160	0.27	62	0.61	290	0.68	0.29	25	11	0.91	0.55	790	0.06	4.8
														1.2

Table 01
Soil Chemical Testing Results



Chlorinated Hydrocarbons																						
Field ID	LocCode	Sample Depth	Range	Sampled Date/Time	1,2,3,4-tetrachlorobenzene mg/kg	1,2,3,5-tetrachlorobenzene mg/kg	1,2,4,5-tetrachlorobenzene mg/kg	1,2,4-trichlorobenzene mg/kg	1,3-dichlorobenzene mg/kg	1,4-dichlorobenzene mg/kg	2-chloronaphthalene mg/kg	Benzal Chloride mg/kg	Benzotrifluoride mg/kg	Benzyl chloride mg/kg	hexachlorocyclopentadiene mg/kg	hexachloroethane mg/kg	Pentachlorobenzene mg/kg	Chlorinated hydrocarbons mg/kg	Other chlorinated hydrocarbons mg/kg			
EQCL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																						
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																						
NEPM Amendment 2013 ESL (urban residential/public open space) - fine																						
NEPM Amendment 2013 ESL (urban residential/public open space) - coarse																						
NEPM Amendment 2013 HI/HSI A																						
CRC CARE 2011 Vapour Intrusion HSI A																						
CRC CARE 2011 Direct Contact HSI A																						
NEPM Amendment 2013 HI/HSI B																						
CRC CARE 2011 Vapour Intrusion HSI B																						
CRC CARE 2011 Direct Contact HSI B																						
NEPM Amendment 2013 HI/HSI C																						
CRC CARE 2011 Direct Contact HSI C																						
NEPM Amendment 2013 HI/HSI D																						
CRC CARE 2011 Vapour Intrusion HSI D																						
CRC CARE 2011 Direct Contact HSI D																						
USEPA - Region 3.6.9 - Residential Soil																						
AS 2159-2009 Piling - Design and Installation - Soil																						
EPA WWSG 821 Category B Upper Limit																						
EPA WWSG 821 Category C Upper Limit																						
EPA WWSG 821 Fill Material Upper Limit																						
191030-S501	S501	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S502	S502	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S503	S503	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S504	S504	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S505	S505	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S506	S506	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S507	S507	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S508	S508	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S509	S509	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S510	S510	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S511	S511	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S512	S512	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S513	S513	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S514	S514	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S515	S515	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S516	S516	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S517	S517	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S518	S518	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S519	S519	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S520	S520	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S521	S521	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S522	S522	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S523	S523	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S524	S524	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S525	S525	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S526	S526	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S527	S527	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S528	S528	0-0.1		30/10/2019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
191030-S529	S529	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
191030-S530	S530	0-0.1		30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Table 01
Soil Chemical Testing Results



Field ID	LocCode	Sample Depth Range	Sampled Date/Time	Halogenated Phenols										Non Halogenated Phenols									
				2,3,4,5-tetrachlorophenol mg/kg	2,3,4,5-tetrachlorophenol mg/kg	2,3,5,6-tetrachlorophenol mg/kg	2,3,5-trichlorophenol mg/kg	2,4,6-trichlorophenol mg/kg	2,4-dichlorophenol mg/kg	2,6-dichlorophenol mg/kg	2-chlorophenol mg/kg	4-chloro-3-methylphenol mg/kg	Pentachlorophenol mg/kg	Phenols (Total Halogenated) mg/kg	2,4-dimethylphenol mg/kg	4,6-dimino-2-methylphenol mg/kg	2-nitrophenol mg/kg	4-nitrophenol mg/kg	Cresol Total mg/kg	4,6-Dinitro-o-cyclohexyl phenol mg/kg	Phenol mg/kg	Diosab mg/kg	Phenols (Total Non Halogenated) mg/kg
191030-5501	SS01	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5502	SS02	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5503	SS03	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5504	SS04	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5505	SS05	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5506	SS06	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5507	SS07	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5508	SS08	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5509	SS09	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5510	SS10	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5511	SS11	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5512	SS12	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5513	SS13	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5514	SS14	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5515	SS15	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5516	SS16	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5517	SS17	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5518	SS18	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5519	SS19	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5520	SS20	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5521	SS21	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5522	SS22	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5523	SS23	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5524	SS24	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5525	SS25	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5526	SS26	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5527	SS27	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5528	SS28	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5529	SS29	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5530	SS30	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

191030-5501	SS01	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5502	SS02	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5503	SS03	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5504	SS04	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5505	SS05	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5506	SS06	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5507	SS07	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5508	SS08	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5509	SS09	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5510	SS10	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5511	SS11	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5512	SS12	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5513	SS13	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5514	SS14	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5515	SS15	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5516	SS16	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5517	SS17	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5518	SS18	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5519	SS19	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5520	SS20	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5521	SS21	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5522	SS22	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5523	SS23	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5524	SS24	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5525	SS25	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5526	SS26	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5527	SS27	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5528	SS28	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5529	SS29	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191030-5530	SS30	0-0.1	30/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 01
Soil Chemical Testing Results

Field ID	LocCode	Sample Depth	Range	Sampled Date/Time	Polychlorinated Biphenyls										Inorganics					pH (lab)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	PCBs (sum of total)	Cyanide Total	Fluoride	Lanthanum	Moisture	
191030-S501	S501	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S502	S502	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S503	S503	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S504	S504	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S505	S505	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S506	S506	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S507	S507	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S508	S508	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S509	S509	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S510	S510	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S511	S511	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S512	S512	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S513	S513	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S514	S514	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S515	S515	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S516	S516	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S517	S517	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S518	S518	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S519	S519	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S520	S520	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S521	S521	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S522	S522	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S523	S523	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S524	S524	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S525	S525	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S526	S526	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S527	S527	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S528	S528	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S529	S529	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1
191030-S530	S530	0-0.1		30/10/2019	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5	100	5	2	0.1