

APPENDIX

X

INLAND
RAIL 

EMR Search Certificates and Laboratory Certificates

GOWRIE TO HELIDON ENVIRONMENTAL IMPACT STATEMENT

ARTC

The Australian Government is delivering
Inland Rail through the Australian
Rail Track Corporation (ARTC), in
partnership with the private sector.

Environmental Management Register Search Certificates

GOWRIE TO HELIDON ENVIRONMENTAL IMPACT STATEMENT





Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Globalx Terrain
Cathedral Square, West Tower
Level 6, 410 Ann St
Brisbane QLD 4000

Transaction ID: 50513113 EMR Site Id: 6331 15 February 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 125 Plan: CP907566

EMR RESULT

The above site IS included on the Environmental Management Register.

Lot: 125 Plan: CP907566
Address: AIRFORCE ROAD
 HELIDON 4344

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
EXPLOSIVES PRODUCTION OR STORAGE - operating a factory under the *Explosives Act 1952*.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

Administering Authority



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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Leanne Lee
3/68 Alfred St
Milsons Point NSW 2061

Transaction ID: 50632417 EMR Site Id: 208948 08 October 2020
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 172 Plan: SP227269

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 172 Plan: RP220582
Address: 155-175 HERMITAGE ROAD (BEDFORD ST)
TOOWOOMBA 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
LANDFILL - disposing of waste (excluding inert construction and demolition waste).

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

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SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551554 EMR Site Id: 138006 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 1 Plan: SP270010

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 164 Plan: AG3056
Address: 156 WEALE STREET
TOOWOOMBA 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
WASTE STORAGE, TREATMENT OR DISPOSAL - storing, treating, reprocessing or disposing of regulated waste (other than at the place it is generated), including operating a nightsoil disposal site or sewage treatment plant where the site or plant has a design capacity that is more than the equivalent of 50, 000 persons having sludge drying beds or on-site disposal facilities.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

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SEARCH RESPONSE
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CONTAMINATED LAND REGISTER (CLR)

Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551548 EMR Site Id: 7187 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 2 Plan: RP844703

EMR RESULT

The above site IS included on the Environmental Management Register.

Lot: 2 Plan: RP844703
Address: 1 - 9 STUART STREET
TOOWOOMBA 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.

PETROLEUM PRODUCT OR OIL STORAGE - storing petroleum products or oil -

(a) in underground tanks with more than 200L capacity; or

(b) in above ground tanks with -

(i) for petroleum products or oil in class 3 in packaging groups 1 and 2 of the dangerous goods code - more than 2, 500L capacity; or

(ii) for petroleum products or oil in class 3 in packaging groups 3 of the dangerous goods code - more than 5, 000L capacity; or

(iii) for petroleum products that are combustible liquids in class C1 or C2 in Australian Standard AS1940, 'The storage and handling of flammable and combustible liquids' published by Standards Australia - more than 25, 000L capacity.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.

The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

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Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551539 EMR Site Id: 19291 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 67 Plan: CP839425

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 67 Plan: CA31340
Address: AIRFORCE ROAD
 HELIDON 4344

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
EXPLOSIVES PRODUCTION OR STORAGE - operating a factory under the *Explosives Act 1952*.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

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Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551556 EMR Site Id: 66614 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 172 Plan: SP189517

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 172 Plan: RP220582
Address: 155-175 HERMITAGE ROAD (BEDFORD ST)
TOOWOOMBA 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
LANDFILL - disposing of waste (excluding inert construction and demolition waste).

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
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CONTAMINATED LAND REGISTER (CLR)

Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551545 EMR Site Id: 19401 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 196 Plan: RP845660

EMR RESULT

The above site IS included on the Environmental Management Register.

The site you have searched has been subdivided from the following site, which IS included on the EMR or the CLR.

Lot: 196 Plan: CC3295
Address: 7 - 67 NEW ENGLAND HIGHWAY
MOUNT KYNOCH 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
CHEMICAL STORAGE - (other than petroleum products or oil under item 29) - storing more than 10 t of chemicals (other than compressed or liquefied gases) that are dangerous goods under the dangerous goods code.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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Gloablx Terrain
Po Box 2746
Brisbane QLD 4069

Transaction ID: 50551551 EMR Site Id: 7081 27 August 2019
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 918 Plan: RP844703

EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 918 Plan: RP844703
Address: 3-13 MUNRO STREET
TOOWOOMBA 4350

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
RAILWAY YARDS - operating a railway yard including goods-handling yards, workshops and maintenance areas.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

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Administering Authority

Laboratory Certificates

GOWRIE TO HELIDON ENVIRONMENTAL IMPACT STATEMENT



Page 1 of 1

CERTIFICATE OF ANALYSIS

Work Order : **EB1826502**
Client : **TRILAB PTY LTD**
Contact : **THE ADMIN RESULTS**
Address : **346A BILSEN RD**
GEEBUNG QLD, AUSTRALIA 4031
Telephone : **+61 07 3265 5656**
Project : **Inland Rail - G2H**
Order number : **BNE 1910023**
C-O-C number : **----**
Sampler : **----**
Site : **----**
Quote number : **EN/333**
No. of samples received : **15**
No. of samples analysed : **15**

Page : 1 of 5
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 01-Nov-2018 08:00
Date Analysis Commenced : 02-Nov-2018
Issue Date : 12-Nov-2018 08:54



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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Mark Hallas	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Tom Maloney	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- ED007(Exchangeable Cations): Unable to calculate Calcium/Magnesium Ratio for sample EB1826502-010(18100644 / 320-01BH2217-D00000 / 0.00-0.10m) as the required results for Calcium/Magnesium are below LOR.
- ED006(Exchangeable Cations on Alkaline Soils): Unable to calculate Magnesium/Potassium Ratio for samples EB1826502-012(18100646 / 320-01BH2217-D00100 / 1.00-1.10m) as the required results for Magnesium/Potassium are below LOR.
- ALS is not NATA accredited for the analysis of Exchangeable Aluminium and Exchange Acidity in soils when performed under ALS Method ED005.
- ALS is not NATA accredited for the analysis of Exchangeable Cations on Alkaline Soils when performed under ALS Method ED006.
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCl - Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity ($H^+ + Al^{3+}$).
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Client sample ID

				18100635 / 320-01BH2201-D0000 0 / 0.00-0.10m	18100636 / 320-01BH2201-D0004 0 / 0.40-0.50m	18100637 / 320-01BH2201-D0010 0 / 1.00-1.10m	18100638 / 320-01BH2209-D0000 0 / 0.00-0.10m	18100639 / 320-01BH2209-D0004 0 / 0.40-0.50m
Client sampling date / time				[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]
Compound	CAS Number	LOR	Unit	EB1826502-001	EB1826502-002	EB1826502-003	EB1826502-004	EB1826502-005
				Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)								
pH Value	----	0.1	pH Unit	6.3	5.9	6.8	8.1	8.7
EA006: Sodium Adsorption Ratio (SAR)								
Sodium Adsorption Ratio	----	0.01	-	2.61	6.08	10.0	35.1	25.8
EA010: Conductivity (1:5)								
Electrical Conductivity @ 25°C	----	1	µS/cm	139	59	126	362	418
ED005: Exchange Acidity								
Exchange Acidity	----	0.1	meq/100g	----	0.2	----	----	----
Exchangeable Aluminium	----	0.1	meq/100g	----	0.1	----	----	----
ED006: Exchangeable Cations on Alkaline Soils								
Exchangeable Calcium	----	0.2	meq/100g	----	----	----	4.6	5.4
Exchangeable Magnesium	----	0.2	meq/100g	----	----	----	6.6	6.5
Exchangeable Potassium	----	0.2	meq/100g	----	----	----	0.4	0.4
Exchangeable Sodium	----	0.2	meq/100g	----	----	----	2.7	2.5
Cation Exchange Capacity	----	0.2	meq/100g	----	----	----	14.3	14.8
Exchangeable Sodium Percent	----	0.2	%	----	----	----	19.1	17.1
Calcium/Magnesium Ratio	----	0.2	-	----	----	----	0.7	0.8
Magnesium/Potassium Ratio	----	0.2	-	----	----	----	18.4	18.2
ED007: Exchangeable Cations								
Exchangeable Calcium	----	0.1	meq/100g	8.2	8.8	10.4	----	----
Exchangeable Magnesium	----	0.1	meq/100g	5.9	13.5	20.7	----	----
Exchangeable Potassium	----	0.1	meq/100g	1.2	0.6	0.4	----	----
Exchangeable Sodium	----	0.1	meq/100g	0.6	1.1	2.2	----	----
Cation Exchange Capacity	----	0.1	meq/100g	----	24.2	----	----	----
Cation Exchange Capacity	----	0.1	meq/100g	15.8	----	33.8	----	----
Exchangeable Sodium Percent	----	0.1	%	3.5	4.6	6.7	----	----
Calcium/Magnesium Ratio	----	0.1	-	1.4	0.6	0.5	----	----
Magnesium/Potassium Ratio	----	0.1	-	4.8	23.6	46.8	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Client sample ID

				18100640 / 320-01BH2209-D0010 0 / 1.00-1.10m	18100641 / 320-01BH2212-D0000 0 / 0.00-0.10m	18100642 / 320-01BH2212-D0004 0 / 0.40-0.50m	18100643 / 320-01BH2212-D0010 0 / 1.00-1.10m	18100644 / 320-01BH2217-D0000 0 / 0.00-0.10m
Client sampling date / time				[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]
Compound	CAS Number	LOR	Unit	EB1826502-006	EB1826502-007	EB1826502-008	EB1826502-009	EB1826502-010
				Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)								
pH Value	----	0.1	pH Unit	8.7	6.2	6.3	7.9	6.1
EA006: Sodium Adsorption Ratio (SAR)								
Sodium Adsorption Ratio	----	0.01	-	32.3	7.92	23.2	39.3	9.60
EA010: Conductivity (1:5)								
Electrical Conductivity @ 25°C	----	1	µS/cm	615	20	234	266	64
ED006: Exchangeable Cations on Alkaline Soils								
Exchangeable Calcium	----	0.2	meq/100g	5.0	----	----	6.9	----
Exchangeable Magnesium	----	0.2	meq/100g	6.8	----	----	5.6	----
Exchangeable Potassium	----	0.2	meq/100g	0.5	----	----	0.4	----
Exchangeable Sodium	----	0.2	meq/100g	2.8	----	----	3.6	----
Cation Exchange Capacity	----	0.2	meq/100g	15.1	----	----	16.5	----
Exchangeable Sodium Percent	----	0.2	%	18.6	----	----	21.6	----
Calcium/Magnesium Ratio	----	0.2	-	0.7	----	----	1.2	----
Magnesium/Potassium Ratio	----	0.2	-	12.9	----	----	14.1	----
ED007: Exchangeable Cations								
Exchangeable Calcium	----	0.1	meq/100g	----	2.5	8.9	----	0.2
Exchangeable Magnesium	----	0.1	meq/100g	----	1.4	9.2	----	0.6
Exchangeable Potassium	----	0.1	meq/100g	----	0.2	0.3	----	<0.1
Exchangeable Sodium	----	0.1	meq/100g	----	0.5	4.0	----	0.2
Cation Exchange Capacity	----	0.1	meq/100g	----	4.5	22.5	----	1.2
Exchangeable Sodium Percent	----	0.1	%	----	10.7	18.0	----	17.7
Calcium/Magnesium Ratio	----	0.1	-	----	1.8	1.0	----	0.3
Magnesium/Potassium Ratio	----	0.1	-	----	8.7	30.5	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Client sample ID

				18100645 / 320-01BH2217-D0004 0 / 0.40-0.50m	18100646 / 320-01BH2217-D0010 0 / 1.00-1.10m	18100647 / 320-01BH2218-D0000 0 / 0.00-0.10m	18100648 / 320-01BH2218-D0004 0 / 0.40-0.50m	18100649 / 320-01BH2218-D0010 0 / 1.00-1.10m
Client sampling date / time				[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]	[30-Oct-2018]
Compound	CAS Number	LOR	Unit	EB1826502-011	EB1826502-012	EB1826502-013	EB1826502-014	EB1826502-015
				Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)								
pH Value	----	0.1	pH Unit	5.8	7.8	9.0	7.2	7.0
EA006: Sodium Adsorption Ratio (SAR)								
Sodium Adsorption Ratio	----	0.01	-	6.98	16.3	2.58	4.74	2.81
EA010: Conductivity (1:5)								
Electrical Conductivity @ 25°C	----	1	µS/cm	30	43	58	15	14
ED005: Exchange Acidity								
Exchange Acidity	----	0.1	meq/100g	0.6	----	----	----	----
Exchangeable Aluminium	----	0.1	meq/100g	0.4	----	----	----	----
ED006: Exchangeable Cations on Alkaline Soils								
Exchangeable Calcium	----	0.2	meq/100g	----	<0.2	2.8	----	----
Exchangeable Magnesium	----	0.2	meq/100g	----	0.7	1.5	----	----
Exchangeable Potassium	----	0.2	meq/100g	----	<0.2	1.3	----	----
Exchangeable Sodium	----	0.2	meq/100g	----	0.6	3.1	----	----
Cation Exchange Capacity	----	0.2	meq/100g	----	1.3	8.8	----	----
Exchangeable Sodium Percent	----	0.2	%	----	45.2	35.2	----	----
Calcium/Magnesium Ratio	----	0.2	-	----	<0.2	1.8	----	----
Magnesium/Potassium Ratio	----	0.2	-	----	----	1.1	----	----
ED007: Exchangeable Cations								
Exchangeable Calcium	----	0.1	meq/100g	0.7	----	----	3.5	7.2
Exchangeable Magnesium	----	0.1	meq/100g	0.8	----	----	2.9	6.5
Exchangeable Potassium	----	0.1	meq/100g	0.1	----	----	0.2	0.2
Exchangeable Sodium	----	0.1	meq/100g	0.2	----	----	0.3	0.4
Cation Exchange Capacity	----	0.1	meq/100g	2.4	----	----	----	----
Cation Exchange Capacity	----	0.1	meq/100g	----	----	----	6.9	14.4
Exchangeable Sodium Percent	----	0.1	%	12.8	----	----	4.8	2.6
Calcium/Magnesium Ratio	----	0.1	-	0.9	----	----	1.2	1.1
Magnesium/Potassium Ratio	----	0.1	-	7.2	----	----	17.6	28.4

QUALITY CONTROL REPORT

Work Order	: EB1826502	Page	: 1 of 5
Client	: TRILAB PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: THE ADMIN RESULTS	Contact	: Customer Services EB
Address	: 346A BILSEN RD GEEBUNG QLD, AUSTRALIA 4031	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: +61 07 3265 5656	Telephone	: +61-7-3243 7222
Project	: Inland Rail - G2H	Date Samples Received	: 01-Nov-2018
Order number	: BNE 1910023	Date Analysis Commenced	: 02-Nov-2018
C-O-C number	: ----	Issue Date	: 12-Nov-2018
Sampler	: ----		
Site	: ----		
Quote number	: EN/333		
No. of samples received	: 15		
No. of samples analysed	: 15		



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

This Quality Control Report contains the following information:

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Mark Hallas	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Tom Maloney	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EA002: pH 1:5 (Soils) (QC Lot: 2015546)									
EB1826498-001	Anonymous	EA002: pH Value	----	0.1	pH Unit	8.5	8.5	0.00	0% - 20%
EB1826502-001	18100635 / 320-01BH2201-D00000 / 0.00-0.10m	EA002: pH Value	----	0.1	pH Unit	6.3	6.4	0.00	0% - 20%
EA002: pH 1:5 (Soils) (QC Lot: 2015548)									
EB1826502-011	18100645 / 320-01BH2217-D00040 / 0.40-0.50m	EA002: pH Value	----	0.1	pH Unit	5.8	5.8	0.00	0% - 20%
EA010: Conductivity (1:5) (QC Lot: 2015547)									
EB1826498-001	Anonymous	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	129	118	8.93	0% - 20%
EB1826502-001	18100635 / 320-01BH2201-D00000 / 0.00-0.10m	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	139	142	2.21	0% - 20%
EA010: Conductivity (1:5) (QC Lot: 2015549)									
EB1826502-011	18100645 / 320-01BH2217-D00040 / 0.40-0.50m	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	30	34	12.0	0% - 20%
ED005: Exchange Acidity (QC Lot: 2023585)									
EB1826502-002	18100636 / 320-01BH2201-D00040 / 0.40-0.50m	ED005: Exchange Acidity	----	0.1	meq/100g	0.2	0.3	0.00	No Limit
		ED005: Exchangeable Aluminium	----	0.1	meq/100g	0.1	0.1	0.00	No Limit
ED006: Exchangeable Cations on Alkaline Soils (QC Lot: 2023588)									

Page : 3 of 5
 Work Order : EB1826502
 Client : TRILAB PTY LTD
 Project : Inland Rail - G2H



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
ED006: Exchangeable Cations on Alkaline Soils (QC Lot: 2023588) - continued									
EB1826502-004	18100638 / 320-01BH2209-D00000 / 0.00-0.10m	ED006: Exchangeable Calcium	----	0.2	meq/100g	4.6	4.1	10.9	0% - 20%
		ED006: Exchangeable Magnesium	----	0.2	meq/100g	6.6	5.9	12.3	0% - 20%
		ED006: Exchangeable Potassium	----	0.2	meq/100g	0.4	0.3	0.00	No Limit
		ED006: Exchangeable Sodium	----	0.2	meq/100g	2.7	2.4	11.9	0% - 50%
		ED006: Cation Exchange Capacity	----	0.2	meq/100g	14.3	12.7	12.1	0% - 20%
EB1826580-005	Anonymous	ED006: Exchangeable Calcium	----	0.2	meq/100g	12.4	13.2	6.87	0% - 20%
		ED006: Exchangeable Magnesium	----	0.2	meq/100g	3.8	4.1	6.41	0% - 20%
		ED006: Exchangeable Potassium	----	0.2	meq/100g	0.4	0.4	0.00	No Limit
		ED006: Exchangeable Sodium	----	0.2	meq/100g	12.6	13.3	6.02	0% - 20%
		ED006: Cation Exchange Capacity	----	0.2	meq/100g	29.1	31.1	6.53	0% - 20%
ED007: Exchangeable Cations (QC Lot: 2023575)									
EB1826502-001	18100635 / 320-01BH2201-D00000 / 0.00-0.10m	ED007: Exchangeable Calcium	----	0.1	meq/100g	8.2	9.0	9.94	0% - 20%
		ED007: Exchangeable Magnesium	----	0.1	meq/100g	5.9	6.4	9.23	0% - 20%
		ED007: Exchangeable Potassium	----	0.1	meq/100g	1.2	1.4	13.2	0% - 50%
		ED007: Exchangeable Sodium	----	0.1	meq/100g	0.6	0.6	0.00	No Limit
ED007: Exchangeable Cations (QC Lot: 2023584)									
EB1826502-002	18100636 / 320-01BH2201-D00040 / 0.40-0.50m	ED007: Exchangeable Calcium	----	0.1	meq/100g	8.8	9.5	7.10	0% - 20%
		ED007: Exchangeable Magnesium	----	0.1	meq/100g	13.5	15.4	12.7	0% - 20%
		ED007: Exchangeable Potassium	----	0.1	meq/100g	0.6	0.6	0.00	No Limit
		ED007: Exchangeable Sodium	----	0.1	meq/100g	1.1	1.3	12.3	0% - 50%



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EA002: pH 1:5 (Soils) (QCLot: 2015546)								
EA002: pH Value	----	----	pH Unit	----	4 pH Unit	101	98	102
				----	7 pH Unit	99.7	98	102
EA002: pH 1:5 (Soils) (QCLot: 2015548)								
EA002: pH Value	----	----	pH Unit	----	4 pH Unit	100	98	102
				----	7 pH Unit	99.4	98	102
EA006: Sodium Adsorption Ratio (SAR) (QCLot: 2015587)								
EA006: Sodium Adsorption Ratio	----	0.01	-	<0.01	----	----	----	----
EA010: Conductivity (1:5) (QCLot: 2015547)								
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	1412 µS/cm	99.0	97	103
EA010: Conductivity (1:5) (QCLot: 2015549)								
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	1412 µS/cm	98.6	97	103
ED005: Exchange Acidity (QCLot: 2023585)								
ED005: Exchange Acidity	----	0.1	meq/100g	<0.1	----	----	----	----
ED005: Exchangeable Aluminium	----	0.1	meq/100g	<0.1	----	----	----	----
ED006: Exchangeable Cations on Alkaline Soils (QCLot: 2023588)								
ED006: Exchangeable Calcium	----	0.2	meq/100g	<0.2	5.4 meq/100g	112	70	130
ED006: Exchangeable Magnesium	----	0.2	meq/100g	<0.2	4.84 meq/100g	77.6	70	130
ED006: Exchangeable Potassium	----	0.2	meq/100g	<0.2	2.73 meq/100g	103	70	130
ED006: Exchangeable Sodium	----	0.2	meq/100g	<0.2	2.68 meq/100g	108	70	130
ED006: Cation Exchange Capacity	----	0.2	meq/100g	<0.2	15.6 meq/100g	99.6	70	130
ED007: Exchangeable Cations (QCLot: 2023575)								
ED007: Exchangeable Calcium	----	0.1	meq/100g	<0.1	3.54 meq/100g	93.8	79	113
ED007: Exchangeable Magnesium	----	0.1	meq/100g	<0.1	1.15 meq/100g	91.2	85	115
ED007: Exchangeable Potassium	----	0.1	meq/100g	<0.1	0.635 meq/100g	76.0	70	122
ED007: Exchangeable Sodium	----	0.1	meq/100g	<0.1	0.382 meq/100g	79.4	76	112
ED007: Cation Exchange Capacity	----	0.1	meq/100g	<0.1	5.707 meq/100g	88.6	82	112
ED007: Exchangeable Cations (QCLot: 2023584)								
ED007: Exchangeable Calcium	----	0.1	meq/100g	<0.1	3.54 meq/100g	98.0	79	113
ED007: Exchangeable Magnesium	----	0.1	meq/100g	<0.1	1.15 meq/100g	98.0	85	115
ED007: Exchangeable Potassium	----	0.1	meq/100g	<0.1	0.635 meq/100g	97.0	70	122
ED007: Exchangeable Sodium	----	0.1	meq/100g	<0.1	0.382 meq/100g	95.5	76	112
ED007: Cation Exchange Capacity	----	0.1	meq/100g	<0.1	5.707 meq/100g	97.8	82	112



Matrix Spike (MS) Report

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

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB1826502	Page	: 1 of 5
Client	: TRILAB PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: THE ADMIN RESULTS	Telephone	: +61-7-3243 7222
Project	: Inland Rail - G2H	Date Samples Received	: 01-Nov-2018
Site	: ----	Issue Date	: 12-Nov-2018
Sampler	: ----	No. of samples received	: 15
Order number	: BNE 1910023	No. of samples analysed	: 15

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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



Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA002: pH 1:5 (Soils)								
Snap Lock Bag (EA002) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	02-Nov-2018	06-Nov-2018	✔	02-Nov-2018	02-Nov-2018	✔
EA006: Sodium Adsorption Ratio (SAR)								
Snap Lock Bag (EA006) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	08-Nov-2018	28-Apr-2019	✔	08-Nov-2018	28-Apr-2019	✔
EA010: Conductivity (1:5)								
Snap Lock Bag (EA010) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	02-Nov-2018	06-Nov-2018	✔	02-Nov-2018	30-Nov-2018	✔



Matrix: **SOIL**

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

Method	Sample Date		Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED005: Exchange Acidity								
Snap Lock Bag (ED005) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	08-Nov-2018	27-Nov-2018	✓	09-Nov-2018	27-Nov-2018	✓
ED006: Exchangeable Cations on Alkaline Soils								
Snap Lock Bag (ED006) 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m,	18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m	30-Oct-2018	07-Nov-2018	27-Nov-2018	✓	09-Nov-2018	27-Nov-2018	✓
Snap Lock Bag (ED006) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	08-Nov-2018	27-Nov-2018	✓	09-Nov-2018	27-Nov-2018	✓
ED007: Exchangeable Cations								
Snap Lock Bag (ED007) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	08-Nov-2018	27-Nov-2018	✓	09-Nov-2018	27-Nov-2018	✓
ED008: Exchangeable Cations								
Snap Lock Bag (ED008) 18100635 / 320-01BH2201-D00000 / 0.00-0.10m, 18100637 / 320-01BH2201-D00100 / 1.00-1.10m, 18100639 / 320-01BH2209-D00040 / 0.40-0.50m, 18100641 / 320-01BH2212-D00000 / 0.00-0.10m, 18100643 / 320-01BH2212-D00100 / 1.00-1.10m, 18100645 / 320-01BH2217-D00040 / 0.40-0.50m, 18100647 / 320-01BH2218-D00000 / 0.00-0.10m, 18100649 / 320-01BH2218-D00100 / 1.00-1.10m	18100636 / 320-01BH2201-D00040 / 0.40-0.50m, 18100638 / 320-01BH2209-D00000 / 0.00-0.10m, 18100640 / 320-01BH2209-D00100 / 1.00-1.10m, 18100642 / 320-01BH2212-D00040 / 0.40-0.50m, 18100644 / 320-01BH2217-D00000 / 0.00-0.10m, 18100646 / 320-01BH2217-D00100 / 1.00-1.10m, 18100648 / 320-01BH2218-D00040 / 0.40-0.50m,	30-Oct-2018	08-Nov-2018	27-Nov-2018	✓	09-Nov-2018	27-Nov-2018	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Electrical Conductivity (1:5)	EA010	3	25	12.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchange Acidity by 1M Potassium Chloride	ED005	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	2	9	22.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	3	25	12.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Electrical Conductivity (1:5)	EA010	2	25	8.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	2	9	22.22	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	4	25	16.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Electrical Conductivity (1:5)	EA010	2	25	8.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchange Acidity by 1M Potassium Chloride	ED005	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations	ED007	2	9	22.22	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Exchangeable Cations on Alkaline Soils	ED006	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Sodium Adsorption Ratio (SAR)	EA006	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
pH (1:5)	EA002	SOIL	In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on soil samples after a 1:5 soil/water leach. This method is compliant with NEPM (2013) Schedule B(3)
Sodium Adsorption Ratio (SAR)	EA006	SOIL	In house: Referenced to USEPA 600/2 - 78 - 54. The concentration as meq of Ca, Mg and Na are determined on saturated soil by water leach. Results are used to calculate SAR.
Electrical Conductivity (1:5)	EA010	SOIL	In house: Referenced to Rayment and Lyons 3A1 and APHA 2510. Conductivity is determined on soil samples using a 1:5 soil/water leach. This method is compliant with NEPM (2013) Schedule B(3)
Exchange Acidity by 1M Potassium Chloride	ED005	SOIL	In house: referenced to Rayment and Lyons, (2011), method 15G1. This method is unsuitable for near neutral and alkaline soils. NATA accreditation does not cover performance of this service.
Exchangeable Cations on Alkaline Soils	ED006	SOIL	In house: Referenced to Soil Survey Test Method C5. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with alcoholic ammonium chloride at pH 8.5. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil.
Exchangeable Cations	ED007	SOIL	In house: Referenced to Rayment & Lyons (2011) Method 15A1. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. This method is compliant with NEPM (2013) Schedule B(3) (Method 301)
Exchangeable Cations with pre-treatment	ED008	SOIL	In house: Referenced to Rayment & Higginson (2011) Method 15A2. Soluble salts are removed from the sample prior to analysis. Cations are exchanged from the sample by contact with Ammonium Chloride. They are then quantitated in the final solution by ICPAES and reported as meq/100g of original soil. This method is compliant with NEPM (2013) Schedule B(3) (Method 301)
Preparation Methods	Method	Matrix	Method Descriptions
SAR Prep	EA006PR	SOIL	In house: Referenced to USEPA 600/2. Soil is brought to saturation with distilled water by capillary action.
Exchangeable Cations Preparation Method (Alkaline Soils)	ED006PR	SOIL	In house: Referenced to Rayment and Lyons 2011 method 15C1.
Exchangeable Cations Preparation Method	ED007PR	SOIL	In house: Referenced to Rayment & Higginson (1992) method 15A1. A 1M NH ₄ Cl extraction by end over end tumbling at a ratio of 1:20. There is no pretreatment for soluble salts. Extracts can be run by ICP for cations.
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.

					PCBs	BTEXN										Metals									
					Total Polychlorinated Biphenyls	Benzene	Toluene	Ethylbenzene	ortho-Xylene	Sum of BTEX	meta- & para-Xylene EP080	Total Xylenes	Naphthalene	Arsenic	Cadmium	Chromium	Copper	Hexavalent Chromium - Soluble	Lead	Mercury	Nickel	Zinc			
					0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.5		0.4	2	5	0.5	5	0.1	2	5			
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
Action Levels					1									100	20	100	6000	100	300	40	400	7400			
NEPM - HIL A RESIDENTIAL (2013) ¹					1									300	90	300	17000	300	600	80	1200	30000			
NEPM - HIL D COMM/INDUSTRIAL (2013) ¹					7									3000	900	3600	240000	3600	1500	730	6000	400000			
NEPM - HSL SOIL A/B SAND 0-<1M ¹						0.5	160	55				40	3												
NEPM - HSL SOIL C SAND 0-<1M ¹																									
NEPM - HSL SOIL D SAND 0-<1M ¹						3						230													
NEPM ESL - URB/RES/IOS - COARSE ²						50	85	70				105													
NEPM - EIL - RESIDENTIAL V.CON.S (2013)													170	100		190	130		1100		30	70			
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																				
G2K_HA01	31/08/2020	G2K_HA01 0.0-0.1M	0-0.1	Property A	N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	7	<1	94	45		54	<0.1	103	119		
	31/08/2020	G2K_HA02 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	103	34		<5	<0.1	86	36		
G2K_HA02	31/08/2020	G2K_HA02 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	113	38		<5	<0.1	99	35		
	31/08/2020	G2K_HA03 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	110	40		7	<0.1	117	82		
G2K_HA03	31/08/2020	G2K_HA03 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	89	33		<5	<0.1	91	36		
	31/08/2020	G2K_HA04 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	50	48		<5	<0.1	149	79		
G2K_HA04	31/08/2020	G2K_HA04 0.2-0.25M	0.2-0.25		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	46	36		6	<0.1	114	68		
	31/08/2020	G2K_HA05 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	8	<1	103	52		29	<0.1	142	90		
G2K_HA05	31/08/2020	G2K_HA05 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	171	42		<5	0.1	117	48		
	31/08/2020	G2K_HA06 0.0-0.1M	0-0.1		N	0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	8	<1	124	40		149	0.1	102	206		
G2K_HA06	31/08/2020	G2K_HA06 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	169	42		6	<0.1	108	27		
	31/08/2020	G2K_QC101 200831	0.4-0.5		FD		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	175	41		6	<0.1	108	27		
G2K_HA07	31/08/2020	G2K_QC201 200831	0.4-0.5		FT		<0.1	<0.1	<0.1	<0.1	<0.2	<0.5	<0.5	<0.5	2.1	<0.5	230 ^{1,2,3}	53		7.3	<0.1	180	57		
	31/08/2020	G2K_HA07 0.0-0.3M	0-0.3		N	0.3	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	77	<1	120	113		409	0.2	79	429		
G2K_HA08	31/08/2020	G2K_HA08 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	65	42		20	<0.1	113	134		
	31/08/2020	G2K_HA08 0.3-0.4M	0.3-0.4		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	47	43		<5	<0.1	133	77		
G2K_HA09	1/09/2020	G2K_HA09 0.0-0.1M	0-0.1	Property B	N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	1	102	231		130	1.1	113	621		
	1/09/2020	G2K_HA09 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	88	108		35	0.2	249	233		
G2K_HA10	1/09/2020	G2K_HA10 0.0-0.1M	0-0.1		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	62	33		<5	<0.1	118	52		
	1/09/2020	G2K_HA10 0.4-0.5M	0.4-0.5		N	<0.1	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	84	47		11	<0.1	139	163		
G2K_HA11	1/09/2020	G2K_HA11 0.0-0.1M	0-0.1		Property C	N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	538 ^{1,2,3}	47	4.3	<5	<0.1	137	79	
	1/09/2020	G2K_HA11 0.4-0.5M	0.4-0.5			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	4860 ^{1,2,3,5}	36	7.2	9	<0.1	94	48	
G2K_HA12	1/09/2020	G2K_HA12 0.0-0.1M	0-0.1			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	128	42	<0.5	<5	<0.1	146	70	
	1/09/2020	G2K_HA12 0.4-0.5M	0.4-0.5			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	257 ^{1,5}	54	9.9	17	<0.1	141	346	
G2K_HA13	1/09/2020	G2K_HA13 0.0-0.1M	0-0.1			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	655 ^{1,2,5}	40	<0.5	7	<0.1	132	78	
	1/09/2020	G2K_HA13 0.4-0.5M	0.4-0.5			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	7140 ^{1,2,3,5}	44	12	33	<0.1	134	225	
G2K_HA14	1/09/2020	G2K_HA14 0.0-0.1M	0-0.1			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	7200 ^{1,2,3,5}	55	47.7	44	<0.1	117	210	
	1/09/2020	G2K_HA14 0.3-0.4M	0.3-0.4			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	9	<1	18800 ^{1,2,3,5}	41	<0.5	86	0.2	74	243	
G2K_HA15	1/09/2020	G2K_HA15 0.0-0.1M	0-0.1			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	1770 ^{1,2,5}	44	13.8	10	<0.1	132	96	
	1/09/2020	G2K_HA15 0.3-0.4M	0.3-0.4			N		<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	9200 ^{1,2,3,5}	44	<0.5	43	<0.1	98	247	

Aurecon (2020) PSI - Soil Results

[illegible]

				Organophosphorus Pesticides																															
				Azinphos Methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Demeton-S-methyl	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fensulfotthion	Fenthion	Malathion	Mevinphos (Phosdrin)	Monocrotophos	Parathion	Parathion-methyl	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Trichloronate	
LOR				0.05	0.05	0.05	0.05	0.05	0.05	2	0.2	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.2	0.05	0.05	0.2	0.2	0.2	0.2	0.2	0.05	0.05	0.2	0.2	
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																																			
NEPM - HIL A RESIDENTIAL (2013) ¹								160																											
NEPM - HIL C RECREATIONAL (2013) ²								250																											
NEPM - HIL D COMM/INDUSTRIAL (2013) ³								2000																											
NEPM - HSL SOIL A/B SAND 0-<1M ⁴																																			
NEPM - HSL SOIL C SAND 0-<1M ⁵																																			
NEPM - HSL SOIL D SAND 0-<1M ⁶																																			
NEPM ESL - URB/RES/OS - COARSE ⁷																																			
NEPM - EIL - RESIDENTIAL V.CON.S (2013) ⁸																																			
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																														
G2K_HA01	31/08/2020	G2K_HA01 0.0-0.1M	0-0.1	Property A	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA02 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA02	31/08/2020	G2K_HA02 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA03 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA03	31/08/2020	G2K_HA03 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA04 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA04	31/08/2020	G2K_HA04 0.2-0.25M	0.2-0.25		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA05 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA05	31/08/2020	G2K_HA05 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA06 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA06	31/08/2020	G2K_HA06 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_QC101 200831	0.4-0.5		FD	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_QC201 200831	0.4-0.5		FT																														
	31/08/2020	G2K_HA07 0.0-0.3M	0-0.3		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA07	31/08/2020	G2K_HA08 0.0-0.1M	0-0.1	Property B	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	31/08/2020	G2K_HA08 0.3-0.4M	0.3-0.4		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA08	1/09/2020	G2K_HA09 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	1/09/2020	G2K_HA09 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA09	1/09/2020	G2K_HA10 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	1/09/2020	G2K_HA10 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA10	1/09/2020	G2K_HA11 0.0-0.1M	0-0.1	Property C	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
	1/09/2020	G2K_HA11 0.4-0.5M	0.4-0.5		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
G2K_HA11	1/09/2020	G2K_HA12 0.0-0.1M	0-0.1		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
	1/09/2020	G2K_HA12 0.4-0.5M	0.4-0.5		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
G2K_HA12	1/09/2020	G2K_HA13 0.0-0.1M	0-0.1		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
	1/09/2020	G2K_HA13 0.4-0.5M	0.4-0.5		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
G2K_HA13	1/09/2020	G2K_HA14 0.0-0.1M	0-0.1		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.2	< 0.2	< 0.2		< 0.5	< 0.5			
	1/09/2020	G2K_HA14 0.3-0.4M	0.3-0.4		N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5		< 0.5	< 0.5		< 0.								

Aurecon (2020) PSI - Soil Results

					Oxygenated Compounds										PAHs																	
					Vinyl Acetate	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	2-Hexanone (MBK)	2-Chloronaphthalene	2-Methylnaphthalene	3-Methylcholanthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(A)pyrene TEQ (half LOR)	Benzo(A)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	N-2-Fluorenyl Acetamide	Phenanthrene	Pyrene	Total PAH	Sum of PAHs
LOR					5	5	5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg		
Action Levels																																
NEPM - HIL A RESIDENTIAL (2013) ¹																																
NEPM - HIL C RECREATIONAL (2013) ²																																
NEPM - HIL D COMM/INDUSTRIAL (2013) ³																																
NEPM - HSL SOIL A/B SAND 0-<1M ⁴																																
NEPM - HSL SOIL C SAND 0-<1M ⁴																																
NEPM - HSL SOIL D SAND 0-<1M ⁴																																
NEPM ESL - URB/RES/OS - COARSE ⁵																																
NEPM - EIL - RESIDENTIAL V.CON ⁶ (2013)																																
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																											
G2K_HA01	31/08/2020	G2K_HA01 0.0-0.1M	0-0.1	Property A	N																											
G2K_HA02	31/08/2020	G2K_HA02 0.0-0.1M	0-0.1		N																											
	31/08/2020	G2K_HA02 0.4-0.5M	0.4-0.5		N																											
	31/08/2020	G2K_HA03 0.0-0.1M	0-0.1		N																											
G2K_HA03	31/08/2020	G2K_HA03 0.4-0.5M	0.4-0.5	N																												
	31/08/2020	G2K_HA04 0.0-0.1M	0-0.1	N																												
G2K_HA04	31/08/2020	G2K_HA04 0.2-0.25M	0.2-0.25	N																												
	31/08/2020	G2K_HA05 0.0-0.1M	0-0.1	N																												
G2K_HA05	31/08/2020	G2K_HA05 0.4-0.5M	0.4-0.5	N																												
	31/08/2020	G2K_HA06 0.0-0.1M	0-0.1	N																												
G2K_HA06	31/08/2020	G2K_HA06 0.4-0.5M	0.4-0.5	N																												
	31/08/2020	G2K_QC101 200831	0.4-0.5	FD																												
	31/08/2020	G2K_QC201 200831	0.4-0.5	FT																												
G2K_HA07	31/08/2020	G2K_HA07 0.0-0.3M	0-0.3	Property B	N																											
G2K_HA08	31/08/2020	G2K_HA08 0.0-0.1M	0-0.1		N																											
	31/08/2020	G2K_HA08 0.3-0.4M	0.3-0.4		N																											
	1/09/2020	G2K_HA09 0.0-0.1M	0-0.1		N																											
G2K_HA09	1/09/2020	G2K_HA09 0.4-0.5M	0.4-0.5	N																												
	1/09/2020	G2K_HA10 0.0-0.1M	0-0.1	N																												
G2K_HA10	1/09/2020	G2K_HA10 0.4-0.5M	0.4-0.5	N																												
	1/09/2020	G2K_HA11 0.0-0.1M	0-0.1	Property C	N																											
G2K_HA11	1/09/2020	G2K_HA11 0.4-0.5M	0.4-0.5		N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
	1/09/2020	G2K_HA12 0.0-0.1M	0-0.1		N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
	1/09/2020	G2K_HA12 0.4-0.5M	0.4-0.5		N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
G2K_HA13	1/09/2020	G2K_HA13 0.0-0.1M	0-0.1	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
	1/09/2020	G2K_HA13 0.4-0.5M	0.4-0.5	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
G2K_HA14	1/09/2020	G2K_HA14 0.0-0.1M	0-0.1	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
	1/09/2020	G2K_HA14 0.3-0.4M	0.3-0.4	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
G2K_HA15	1/09/2020	G2K_HA15 0.0-0.1M	0-0.1	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				
	1/09/2020	G2K_HA15 0.3-0.4M	0.3-0.4	N	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<500				

					Phenolic Compounds										TPH					TRH - NEPM 2013								
					Phenol	2-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	4-Chloro-3-Methylphenol	2-Chlorophenol	2,4-Dichlorophenol	2,6-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	3- & 4-Methylphenol	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C9 Fraction	>C10 - C16 Fraction	C10 - C16 minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1) TCLP
LOR					0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	50	50	100	100	10	50	50	100	100	50	10	10	
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																												
NEPM - HIL A RESIDENTIAL (2013) ¹					3000								600		100													
NEPM - HIL C RECREATIONAL (2013) ²					40000										120													
NEPM - HIL D COMM/INDUSTRIAL (2013)					240000								5000		660													
NEPM - HSL SOIL A/B SAND 0-<1M ³																												
NEPM - HSL SOIL C SAND 0-<1M ³																											45	
NEPM - HSL SOIL D SAND 0-<1M ³																											260	
NEPM ESL - URB/RES/OS - COARSE ⁴																						120		300	2800		180	
NEPM - EIL - RESIDENTIAL V.CONS (2013)																												
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																							
G2K_HA01	31/08/2020	G2K_HA01 0.0-0.1M	0-0.1	Property A	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	290	120	170	<10	<50	<50	240	140	380	<10	<10
	31/08/2020	G2K_HA02 0.0-0.1M	0-0.1		N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10
31/08/2020	G2K_HA02 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
31/08/2020	G2K_HA03 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	140	<100	140	<10	<50	<50	160	<100	160	<10	<10
31/08/2020	G2K_HA03 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
31/08/2020	G2K_HA04 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
G2K_HA04	31/08/2020	G2K_HA04 0.2-0.25M	0.2-0.25	Property A	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
	31/08/2020	G2K_HA05 0.0-0.1M	0-0.1		N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
31/08/2020	G2K_HA05 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
31/08/2020	G2K_HA06 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
31/08/2020	G2K_HA06 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	150	<100	150	<10	<10	
31/08/2020	G2K_QC201 200831	0.4-0.5	FD		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
G2K_HA07	31/08/2020	G2K_HA07 0.0-0.3M	0-0.3	Property B	FT												<20	<50	<50	<50	<20	<50	<50	<100	<100	<100	<20	<20
	31/08/2020	G2K_HA08 0.0-0.1M	0-0.1		N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	110	2460	1590	760	<10	170	170	2120	370	2660	<10	<10
31/08/2020	G2K_HA08 0.3-0.4M	0.3-0.4	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA09 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	80	510	230	200	<10	<50	<50	390	<100	390	<10	<10	
1/09/2020	G2K_HA09 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA10 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
G2K_HA10	1/09/2020	G2K_HA10 0.4-0.5M	0.4-0.5	Property C	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
	1/09/2020	G2K_HA11 0.0-0.1M	0-0.1		N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10
1/09/2020	G2K_HA11 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA12 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA12 0.4-0.5M	0.4-0.5	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA13 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
G2K_HA13	1/09/2020	G2K_HA13 0.4-0.5M	0.4-0.5	Property C	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
	1/09/2020	G2K_HA14 0.0-0.1M	0-0.1		N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	250	100	150	<10	<50	<50	210	<100	210	<10	<10
1/09/2020	G2K_HA14 0.3-0.4M	0.3-0.4	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	820	330	490	<10	<50	<50	730	310	1040	<10	<10	
1/09/2020	G2K_HA15 0.0-0.1M	0-0.1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	<50	<100	<100	<10	<50	<50	<100	<100	<50	<10	<10	
1/09/2020	G2K_HA15 0.3-0.4M	0.3-0.4	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<50	250	110	140	<10	<50	<50	220	<100	220	<10	<10	

					PCBs		BTEXN							Metals									
					Total Polychlorinated Biphenyls	Benzene	Toluene	Ethylbenzene	ortho-Xylene	Sum of BTEX	meta- & para-Xylene EP080	Total Xylenes	Naphthalene	Arsenic	Cadmium	Chromium	Copper	Hexavalent Chromium - Soluble	Lead	Mercury	Nickel	Zinc	
					LOR	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.5	2	0.4	2	5	0.5	5	0.1	2	5	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																							
NEPM - HIL A RESIDENTIAL (2013) ¹					1									100	20	100	6000	100	300	40	400	7400	
NEPM - HIL C RECREATIONAL (2013) ²					1									300	90	300	17000	300	600	80	1200	30000	
NEPM - HIL D COMM/INDUSTRIAL (2013) ³					7									3000	900	3600	240000	3600	1500	730	6000	400000	
NEPM - HSL SOIL A/B SAND 0-<1M ⁴						0.5	160	55				40	3										
NEPM - HSL SOIL C SAND 0-<1M ⁴																							
NEPM - HSL SOIL D SAND 0-<1M ⁴						3						230											
NEPM ESL - URB/RES/OS - COARSE ⁷						50	85	70				105											
NEPM - EIL - RESIDENTIAL V.CON.S (2013) ⁸													170	100		190	130		1100		30	70	
G2K_HA102	1/09/2020	G2K_HA102 0.0-0.1M	0-0.1	Gowrie Junction Road	N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	67	36		6	<0.1	127	44	
	1/09/2020	G2K_HA102 0.4-0.5M	0.4-0.5		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	89	39		<5	<0.1	137	53	
G2K_HA103	1/09/2020	G2K_HA103 0.0-0.1M	0-0.1	Morris Road	N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	60	41		<5	<0.1	210	51	
	1/09/2020	G2K_HA103 0.4-0.5M	0.4-0.5		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	78	37		<5	<0.1	119	56	
	1/09/2020	G2K_QC101 200901	0.4-0.5		FD	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	75	35		<5	<0.1	113	52	
	1/09/2020	G2K_QC201 200901	0.4-0.5		FT	<0.1	<0.1	<0.1	<0.1	<0.2	<0.5	<0.5	<0.5	<2	<0.5	130	38		<5	<0.1	170	77	
G2K_HA104	1/09/2020	G2K_HA104 0.0-0.1M	0-0.1	Wallen Road	N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	100	40		<5	<0.1	152	52	
G2K_HA105	2/09/2020	G2K_HA105 0.0-0.1M	0-0.1		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	14	14		10	<0.1	29	34	
	2/09/2020	G2K_HA105 0.4-0.5M	0.4-0.5		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	15	9		11	<0.1	13	12	
G2K_HA106	2/09/2020	G2K_HA106 0.0-0.1M	0-0.1		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	3	<5		<5	<0.1	3	11	
	2/09/2020	G2K_HA106 0.25-0.35M	0.25-0.35		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	4	<5		<5	<0.1	3	13	
G2K_HA107	2/09/2020	G2K_HA107 0.0-0.1M	0-0.1	McNamaras Road	N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	6	6		11	<0.1	8	38	
	2/09/2020	G2K_HA107 0.3-0.4M	0.3-0.4		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	5	<5		7	<0.1	4	22	
G2K_HA108	2/09/2020	G2K_HA108 0.0-0.1M	0-0.1	Cattos Road	N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	9	<1	23	27		17	<0.1	44	162	
G2K_HA109	2/09/2020	G2K_HA109 0.0-0.1M	0-0.1		N	<0.2	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<1	<5	<1	7	<5		6	<0.1	2	14	

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram
ug/kg = milligrams per kilogram

Action Levels:
¹ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'A' Residential
² National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'C' Recreational
³ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'D' Commercial / Industrial
⁴ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) A/B for Soil Vapour Intrusion - Low-High Density Residential (Sand)
⁵ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) C for Soil Vapour Intrusion - Public Open Space (Sand)
⁶ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) D for Soil Vapour Intrusion - Commercial/Industrial (Sand)
⁷ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Ecological Screening Levels (ESL) for TPH Fractions F1 - F4, BTEX and Benzo(a)pyrene in soil - Urban, Residential and Public Open Space
⁸ National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Ecological Investigation Levels (EIL) - Urban residential and public open space.

					Organochlorine Pesticides																												
					4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	alpha-Endosulfan	beta-BHC	beta-Endosulfan	cis-Chlordane	delta-BHC	Dieldrin	Endosulfan	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Hexachlorobenzene (HCB)	Methoxychlor	Sum of Aldrin + Dieldrin	Total Chlordane (sum)	Total DDT/DDE/DDO	trans-Chlordane	Sum of DDD + DDE + DDT	Toxaphene	Chlordane (alpha + gamma)	
					LOR	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	1	0.1	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																																	
NEPM - HIL A RESIDENTIAL (2013) ¹																270		10				6		10	300	6		240		240	20		
NEPM - HIL C RECREATIONAL (2013) ²																340		20				10		10	400	10		400		400	30		
NEPM - HIL D COMM/INDUSTRIAL (2013) ³																2000		100				50		80	2500	45		3600			160		
NEPM - HSL SOIL A/B SAND 0-<1M ⁴																																	
NEPM - HSL SOIL C SAND 0-<1M ⁵																																	
NEPM - HSL SOIL D SAND 0-<1M ⁶																																	
NEPM ESL - URB/RES/OS - COARSE ⁷																																	
NEPM - EIL - RESIDENTIAL V.CONS (2013) ⁸							180																										
G2K_HA102	1/09/2020	G2K_HA102 0.0-0.1M	0-0.1	Gowrie Junction Road	N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	1/09/2020	G2K_HA102 0.4-0.5M	0.4-0.5		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
G2K_HA103	1/09/2020	G2K_HA103 0.0-0.1M	0-0.1	Morris Road	N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	1/09/2020	G2K_HA103 0.4-0.5M	0.4-0.5		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	1/09/2020	G2K_QC101 200901	0.4-0.5		FD	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	1/09/2020	G2K_QC201 200901	0.4-0.5		FT																												
G2K_HA104	1/09/2020	G2K_HA104 0.0-0.1M	0-0.1	Wallen Road	N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
G2K_HA105	2/09/2020	G2K_HA105 0.0-0.1M	0-0.1		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	2/09/2020	G2K_HA105 0.4-0.5M	0.4-0.5		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
G2K_HA106	2/09/2020	G2K_HA106 0.0-0.1M	0-0.1		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05		
	2/09/2020	G2K_HA106 0.25-0.35M	0.25-0.35		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05		
G2K_HA107	2/09/2020	G2K_HA107 0.0-0.1M	0-0.1	McNamaras Road	N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
	2/09/2020	G2K_HA107 0.3-0.4M	0.3-0.4		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
G2K_HA108	2/09/2020	G2K_HA108 0.0-0.1M	0-0.1	Cattos Road	N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			
G2K_HA109	2/09/2020	G2K_HA109 0.0-0.1M	0-0.1		N	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05		<0.05	<0.05			

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram
ug/kg = milligrams per kilogram

Action Levels:
¹National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'A' Residential
²National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'C' Recreational
³National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'D' Commercial / Industrial
⁴National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) A/B for Soil Vapour Intrusion - Low-High Density Residential (Sand)
⁵National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) C for Soil Vapour Intrusion - Public Open Space (Sand)
⁶National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) D for Soil Vapour Intrusion - Commercial/Industrial (Sand)
⁷National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Ecological Screening Levels (ESL) for TPH Fractions F1 - F4, BTEX and Benzo(a)pyrene in soil - Urban, Residential and Public Open Space
⁸National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Ecological Investigation Levels (EIL) - Urban residential and public open space.

					Organophosphorus Pesticides																															
					Azinphos Methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Demeton-S-methyl	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fensulfotthion	Fenthion	Malathion	Mevinphos (Phosdrin)	Monocrotophos	Parathion	Parathion-methyl	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Trichloronate	
LOR					0.05	0.05	0.05	0.05	0.05	0.05	2	0.2	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.2	0.05	0.05	0.2	0.2	0.2	0.2	0.2	0.05	0.05	0.2	0.2	
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																																				
NEPM - HIL A RESIDENTIAL (2013) ¹									160																											
NEPM - HIL C RECREATIONAL (2013) ²									250																											
NEPM - HIL D COMM/INDUSTRIAL (2013) ³									2000																											
NEPM - HSL SOIL A/B SAND 0-<1M ⁴																																				
NEPM - HSL SOIL C SAND 0-<1M ⁵																																				
NEPM - HSL SOIL D SAND 0-<1M ⁶																																				
NEPM ESL - URB/RES/OS - COARSE ⁷																																				
NEPM - EIL - RESIDENTIAL V.CON.S (2013)																																				
G2K_HA102	1/09/2020	G2K_HA102 0.0-0.1M	0-0.1	Gowrie Junction Road	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	1/09/2020	G2K_HA102 0.4-0.5M	0.4-0.5		N	< 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		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05	
G2K_HA103	1/09/2020	G2K_HA103 0.0-0.1M	0-0.1	Morris Road	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	1/09/2020	G2K_HA103 0.4-0.5M	0.4-0.5		N	< 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		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05	
	1/09/2020	G2K_QC101 200901	0.4-0.5		FD	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
	1/09/2020	G2K_QC201 200901	0.4-0.5		FT																															
G2K_HA104	1/09/2020	G2K_HA104 0.0-0.1M	0-0.1	Wallen Road	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA105	2/09/2020	G2K_HA105 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
	2/09/2020	G2K_HA105 0.4-0.5M	0.4-0.5		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
G2K_HA106	2/09/2020	G2K_HA106 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
	2/09/2020	G2K_HA106 0.25-0.35M	0.25-0.35		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
G2K_HA107	2/09/2020	G2K_HA107 0.0-0.1M	0-0.1	McNamaras Road	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
	2/09/2020	G2K_HA107 0.3-0.4M	0.3-0.4		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		
G2K_HA108	2/09/2020	G2K_HA108 0.0-0.1M	0-0.1	Cattos Road	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05			
G2K_HA109	2/09/2020	G2K_HA109 0.0-0.1M	0-0.1		N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05		

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram
ug/kg = milligrams per kilogram

Action Levels:
¹National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'A' Residential
²National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'C' Recreational
³National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'D' Commercial / Industrial
⁴National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) A/B for Soil Vapour Intrusion - Low-High Density Residential (Sand)
⁵National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) C for Soil Vapour Intrusion - Public Open Space (Sand)
⁶National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) D for Soil Vapour Intrusion - Commercial/Industrial (Sand)
⁷National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Ecological Screening Levels (ESL) for TPH Fractions F1 - F4, BTEX and Benzo(a)pyrene in soil - Urban, Residential and Public Open Space
⁸National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Ecological Investigation Levels (EIL) - Urban residential and public open space.

					Oxygenated Compounds				PAHs																									
					Vinyl Acetate	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	2-Hexanone (MBK)	2-Chloronaphthalene	2-Methylnaphthalene	3-Methylcholanthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	N-2-Fluorenyl Acetamide	Phenanthrene	Pyrene	Total PAH	Sum of PAHs		
					LOR	5	5	5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	
					Action Levels																													
					NEPM - HIL A RESIDENTIAL (2013) ¹																													
					NEPM - HIL C RECREATIONAL (2013) ²																													
					NEPM - HIL D COMM/INDUSTRIAL (2013) ³																													
					NEPM - HSL SOIL A/B SAND 0-<1M ⁴																													
					NEPM - HSL SOIL C SAND 0-<1M ⁵																													
					NEPM - HSL SOIL D SAND 0-<1M ⁶																													
					NEPM ESL - URB/RES/OS - COARSE ⁷																													
					NEPM - EIL - RESIDENTIAL V.CON.S (2013) ⁸																													
G2K_HA102	1/09/2020	G2K_HA102	0.0-0.1M	0-0.1	Gowrie Junction Road	N																												
	1/09/2020	G2K_HA102	0.4-0.5M	0.4-0.5		N																												
G2K_HA103	1/09/2020	G2K_HA103	0.0-0.1M	0-0.1	Morris Road	N													3													300	300000	
	1/09/2020	G2K_HA103	0.4-0.5M	0.4-0.5		N																										300		
	1/09/2020	G2K_QC101	200901	0.4-0.5		FD														40												4000		
	1/09/2020	G2K_QC201	200901	0.4-0.5		FT								<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
G2K_HA104	1/09/2020	G2K_HA104	0.0-0.1M	0-0.1	Wallen Road	N																												
G2K_HA105	2/09/2020	G2K_HA105	0.0-0.1M	0-0.1		N																												
	2/09/2020	G2K_HA105	0.4-0.5M	0.4-0.5		N																												
G2K_HA106	2/09/2020	G2K_HA106	0.0-0.1M	0-0.1		N																												
	2/09/2020	G2K_HA106	0.25-0.35M	0.25-0.35		N																												
G2K_HA107	2/09/2020	G2K_HA107	0.0-0.1M	0-0.1	McNamaras Road	N																												
	2/09/2020	G2K_HA107	0.3-0.4M	0.3-0.4		N																												
G2K_HA108	2/09/2020	G2K_HA108	0.0-0.1M	0-0.1	Cattos Road	N																												
G2K_HA109	2/09/2020	G2K_HA109	0.0-0.1M	0-0.1		N																												

Legend:
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Action Levels:
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³National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Health-based Investigation Levels (HIL) 'D' Commercial / Industrial
⁴National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) A/B for Soil Vapour Intrusion - Low-High Density Residential (Sand)
⁵National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) C for Soil Vapour Intrusion - Public Open Space (Sand)
⁶National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) D for Soil Vapour Intrusion - Commercial/Industrial (Sand)
⁷National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Ecological Screening Levels (ESL) for TPH Fractions F1 - F4, BTEX and Benzo(a)pyrene in soil - Urban, Residential and Public Open Space
⁸National Environmental Protection Council (NEPC) 2013 Amendment of the National Environmental Protection Measure (NEPM) 1999. Soil Ecological Investigation Levels (EIL) - Urban residential and public open space.

Aurecon (2020) PSI - Soil Results

					Phenolic Compounds										TPH					TRH - NEPM 2013									
					Phenol	2-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	4-Chloro-3-Methylphenol	2-Chlorophenol	2,4-Dichlorophenol	2,6-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Pentachlorophenol	3- & 4-Methylphenol	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C9 Fraction	>C10 - C16 Fraction	C10 - C16 minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1) TCLP	
LOR					0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	50	50	100	100	10	50	50	100	100	50	10	10	
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																													
NEPM - HIL A RESIDENTIAL (2013) ¹					3000							600		100															
NEPM - HIL C RECREATIONAL (2013) ²					40000									120															
NEPM - HIL D COMM/INDUSTRIAL (2013) ³					240000							5000		660															
NEPM - HSL SOIL A/B SAND 0-<1M ⁴																							110				45		
NEPM - HSL SOIL C SAND 0-<1M ⁵																													
NEPM - HSL SOIL D SAND 0-<1M ⁶																											260	260	
NEPM ESL - URB/RES/OS - COARSE ⁷																						120		300	2800		180		
NEPM - EIL - RESIDENTIAL V.CON.S (2013)																													
G2K_HA102	1/09/2020	G2K_HA102 0.0-0.1M	0-0.1	Gowrie Junction Road	N												< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10	
	1/09/2020	G2K_HA102 0.4-0.5M	0.4-0.5		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
G2K_HA103	1/09/2020	G2K_HA103 0.0-0.1M	0-0.1	Morris Road	N												< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10	
	1/09/2020	G2K_HA103 0.4-0.5M	0.4-0.5		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
	1/09/2020	G2K_QC101 200901	0.4-0.5		FD													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
	1/09/2020	G2K_QC201 200901	0.4-0.5		FT													< 20	< 50	< 50	< 50	< 20	< 50	< 50	< 100	< 100	< 100	< 20	< 20
G2K_HA104	1/09/2020	G2K_HA104 0.0-0.1M	0-0.1	Wallen Road	N												< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10	
G2K_HA105	2/09/2020	G2K_HA105 0.0-0.1M	0-0.1		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
	2/09/2020	G2K_HA105 0.4-0.5M	0.4-0.5		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
G2K_HA106	2/09/2020	G2K_HA106 0.0-0.1M	0-0.1		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
	2/09/2020	G2K_HA106 0.25-0.35M	0.25-0.35		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
G2K_HA107	2/09/2020	G2K_HA107 0.0-0.1M	0-0.1	McNamaras Road	N												< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10	
	2/09/2020	G2K_HA107 0.3-0.4M	0.3-0.4		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10
G2K_HA108	2/09/2020	G2K_HA108 0.0-0.1M	0-0.1	Cattos Road	N												< 50	210	110	100	< 10	< 50	< 50	180	< 100	180	< 10	< 10	
G2K_HA109	2/09/2020	G2K_HA109 0.0-0.1M	0-0.1		N													< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram
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Action Levels:
¹National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Health-bas Investigation Levels (HIL) 'A' Residential
²National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Health-bas Investigation Levels (HIL) 'C' Recreational
³National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Health-bas Investigation Levels (HIL) 'D' Commercial / Industrial
⁴National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) A/B for Soil Vapour Intrusion - Low-High Density Residential (Sand)
⁵National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) C for Soil Vapour Intrusion - Public Open Space (Sand)
⁶National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Soil Health Screening Levels (HSL) D for Soil Vapour Intrusion - Commercial/Industrial (Sand)
⁷National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Ecological Screening Levels (ESL) for TPH Fractions F1 - F4, BTEX and Benzo(a)pyrene in soil - Urban, Residential and Public Open Space
⁸National Environmental Protection Council (NEPC) 2013 Amendment of the National Enviromental Protection Measure (NEPM) 1999. Soil Ecological Investigation Levels (EIL) - Urban residential and public open space.

						BTEXN								Metals								
						Benzene	Toluene	Ethylbenzene	ortho-Xylene	Sum of BTEX	meta- & para-Xylene EP080	Total Xylenes	Naphthalene	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	
LOR	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.5	2	0.4	2	5	5	0.1	2	5						
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
Action Levels																						
ANZG 2018 - Sediment GV-high ¹												70	10	370	270	220	1	52	410			
ANZG 2018 - Sediment DGV ²													20	1.5	80	65	50	0.15	21	200		
Sample Location	Date Sampled	Sample ID		Depth Range (m)	Property	Sample Type																
G2K_SD07	11/09/2020	G2K_SD07	0.0-0.1M 0.00-0.10	0-0.1	Gowrie Creek	N	< 0.2	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 1	< 5	< 1	99	33	9	< 0.1	99 ^{1,2}	87
G2K_SD08	2/09/2020	G2K_SD08	0.0-0.1M 0.00-0.10	0-0.1	Oaky Creek	N	< 0.2	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 1	< 5	< 1	54	24	< 5	< 0.1	100 ^{1,2}	44
G2K_SD09	2/09/2020	G2K_SD09	0.0-0.1M 0.00-0.10	0-0.1	Six Mile Creek	N	< 0.2	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 1	< 5	< 1	24	17	8	< 0.1	32	36

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram

Action Levels:
¹Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - GV-high
²Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - DGV
Exceeds two or more action levels - see superscripts for specific action levels

Lab Qualifiers:
- Estimated value.

Aurecon (2020) PSI - Sediment Results

						Organochlorine Pesticides																													
						4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	alpha-Endosulfan	beta-BHC	beta-Endosulfan	cis-Chlordane	delta-BHC	Dieldrin	Endosulfan	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Hexachlorobenzene (HCB)	Methoxychlor	Sum of Aldrin + Dieldrin	Total Chlordane (sum)	Total DDT/DDE/DDD	trans-Chlordane	Sum of DDD + DDE + DDT	Toxaphene	Chlordane (alpha + gamma)		
LOR						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	0.05	
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Action Levels																																			
ANZG 2018 - Sediment GV-high ¹																0.007			0.06									0.009							
ANZG 2018 - Sediment DGV ²																0.0028			0.0027									0.0045							
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																														
G2K SD07	11/09/2020	G2K SD07 0.0-0.1M 0.00-0.10	0-0.1	Gowrie Creek	N	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05		< 0.05	< 0.05				
G2K SD08	2/09/2020	G2K SD08 0.0-0.1M 0.00-0.10	0-0.1	Oaky Creek	N	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05		< 0.05	< 0.05				
G2K SD09	2/09/2020	G2K SD09 0.0-0.1M 0.00-0.10	0-0.1	Six Mile Creek	N	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.05		< 0.05	< 0.05				

Legend:
 - Not analysed / not calculated
 LOR – Limit of Recording
 * LOR Exceeds Guideline Trigger Value
 Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
 mg/kg = milligrams per kilogram

Action Levels:

¹Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - GV-high

²Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - DGV

Exceeds two or more action levels - see superscripts for specific action levels

Lab Qualifiers:
- Estimated value.

Aurecon (2020) PSI - Sediment Results

						Organophosphorus Pesticides																																
						Azinphos Methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Demeton-S-methyl	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenamiphos	Fenitrothion	Fensulfotthion	Fenthion	Malathion	Mevinphos (Phosdrin)	Monocrotophos	Parathion	Parathion-methyl	Phorate	Pirimphos-ethyl	Prothiofos	Ronnel	Trichloronate		
						LOR	0.05	0.05	0.05	0.05	0.05	2	0.2	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.05	0.2	0.2	0.2	0.2	0.2	0.05	0.05	0.2	0.2	
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Action Levels																																
ANZG 2018 - Sediment GV-high ¹																																						
ANZG 2018 - Sediment DGV ²																																						
Sample Location	Date Sampled	Sample ID	Depth Range (m)	Property	Sample Type																																	
G2K SD07	11/09/2020	G2K SD07 0.0-0.1M 0.00-0.10	0-0.1	Gowrie Creek	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05						
G2K SD08	2/09/2020	G2K SD08 0.0-0.1M 0.00-0.10	0-0.1	Oaky Creek	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05						
G2K SD09	2/09/2020	G2K SD09 0.0-0.1M 0.00-0.10	0-0.1	Six Mile Creek	N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05					< 0.05	< 0.05	< 0.05	< 0.05			< 0.05		< 0.05	< 0.05		< 0.2	< 0.2	< 0.2		< 0.05	< 0.05						

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram

Action Levels:
¹Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - GV-high
²Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - DGV
Exceeds two or more action levels - see superscripts for specific action levels

Lab Qualifiers:
- Estimated value.

Aurecon (2020) PSI - Sediment Results

						PAHs																		TPH					TRH - NEPM 2013													
						Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(A)pyrene TEQ (half LOR)	Benzo(A)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ (zero)	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3.cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C9 Fraction	>C10 - C16 Fraction	C10 - C16 minus Naphthalene (F2)	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)	C6 - C10 Fraction	C6 - C10 Fraction minus BTEX (F1) TCLP						
						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	50	50	100	100	10	50	50	100	100	50	10	10						
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
						Action Levels																		50	550																	
						ANZG 2018 - Sediment GV-high ¹																		10	280																	
						ANZG 2018 - Sediment DGV ²																																				
Sample Location	Date Sampled	Sample ID		Depth Range (m)	Property	Sample Type																																				
G2K SD07	11/09/2020	G2K SD07	0.0-0.1M 0.00-0.10	0-0.1	Gowrie Creek	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10							
G2K SD08	2/09/2020	G2K SD08	0.0-0.1M 0.00-0.10	0-0.1	Oaky Creek	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 50	< 100	< 100	< 10	< 50	< 50	< 100	< 100	< 50	< 10	< 10							
G2K SD09	2/09/2020	G2K SD09	0.0-0.1M 0.00-0.10	0-0.1	Six Mile Creek	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	1.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	60	330	110	160	< 10	< 50	< 50	230	< 100	230	< 10	< 10							

Legend:
- Not analysed / not calculated
LOR – Limit of Recording
* LOR Exceeds Guideline Trigger Value
Sample Type: N - Primary, FD - Duplicate, FT - Triplicate
mg/kg = milligrams per kilogram

Action Levels:
¹Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - GV-high
²Australian and New Zealand Guidelines (ANZG), 2018. Toxicant default guideline values for sediment quality - DGV
Exceeds two or more action levels - see superscripts for specific action levels

Lab Qualifiers:
- Estimated value.

	Asbestos Identification in Soils					OCP			OPP																						
	Asbestos Type	APPROVED IDENTIFIER:	Asbestos (1-Detect or <1-Non-Detect)	Description	Sample weight (dry)	Organochlorine Pesticides (Lab Reported)	Other OCPs (IWRG Lab Reported)	Toxaphene	Bolstar	Coumaphos	Demeton-o	Demeton-S	Disulfoton	EPN	Ethoprop	Fenitrothion	Fensulfothion	Merphos	Mevinphos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Trichloronate	Actril		
LOR	-	-	No	-	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
NEPM 2013 EILS ¹ -Commercial and industrial			0.1		0.01	0.1	0.1	1	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	
NEPM 2013 EILs-Urban Residential and public open space																															
NEPM 2013 HIL ² - Residential A Soil								20																							
NEPM 2013 HIL-Commercial/Industrial D Soil								160																							
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																															
0-1m																															
1-2m																															
2-4m																															
>4m																															
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																															
0-1m																															
1-2m																															
2-4m																															
>4m																															
NEPM 2013 ESL ⁴ - Urban residential and public open space																															
NEPM 2013 ESLs-Commercial and industrial																															

Location Code	Field ID	Sample Date																												
G2H																														
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	1	1	0	1	57.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	1	1	0	1	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	1	1	0	1	43.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	1	1	0	1	65.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	1	1	0	1	31.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	1	1	0	1	32.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	320-02-QA0253-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	320-02-QA0353-J00000_CON	17/12/2018	-	-	-	-	-	<0.1	<0.1	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	1	1	0	1	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	1	1	0	1	69.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	1	1	0	1	53.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	1	1	0	1	45.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	1	1	0	1	51.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	1	1	0	1	47.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	1	1	0	1	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	1	1	0	1	41.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	330-02-QA0351-J00000_CON	12/12/2018	-	-	-	-	-	<0.1	<0.1	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	1	1	0	1	36.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	1	1	0	1	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	1	1	0	1	37.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	1	1	0	1	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	1	1	0	1	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	1	1	0	1	45.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	1	1	0	1	22.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	1	1	0	1	54.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	1	1	0	1	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Organic						PCB								PAH													
	TRH C6 - C9 Fraction	Naphthalene	TRH C6 - C10 Fraction F1	TRH C6 - C10 Fraction Less BTEX F1	Dinoseb	4,6-Dinitro-2-methylphenol	Aroclor 1016	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1221	PCB (Sum of Total-Lab Reported)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (lower bound) *	Benzo(a)pyrene TEQ (medium bound) *	Benzo(a)pyrene TEQ (upper bound) *	Benzo(b)&(j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	20	0.5	20	20	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
NEPM 2013 EILS ¹ -Commercial and industrial		370																										
NEPM 2013 EILs-Urban Residential and public open space		170																										
NEPM 2013 HIL ² - Residential A Soil														1						3	3	3						
NEPM 2013 HIL-Commercial/Industrial D Soil														7						40	40	40						
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																												
0-1m		3 4 5		45 40 50																								
1-2m				65 70 90																								
2-4m				100 110 150																								
>4m				190 200 290																								
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																												
0-1m				250 260 310																								
1-2m				360 370 480																								
2-4m				590 630																								
>4m																												
NEPM 2013 ESL ⁴ - Urban residential and public open space				180															0.7									
NEPM 2013 ESLs-Commercial and industrial				215															1.4									

Location Code	Field ID	Sample Date																												
G2H																														
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	0.8	0.9	1.2	1.4	1.7	1.1	0.7	<0.5	0.8	<0.5
	320-02-QA0253-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	1	1	1.3	1.6	1.9	1.4	0.8	<0.5	0.9	<0.5
	320-02-QA0353-J00000_CON	17/12/2018	<20	<0.5	<20	<20	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	1	1	1.3	1.6	1.8	0.6	0.5	0.7	1.2	<0.5
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	330-02-QA0351-J00000_CON	12/12/2018	<20	<0.5	<20	<20	-	-	<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	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5

[illegible]

Pesticides by GCMS																											
	Chlordane (Sum of total)	cis-Chlordane	trans-Chlordane	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	d-BHC	DDD	DDT	DDT+DDE+DDD (Sum of total) (Lab Reported)	Demeton-s-methyl	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Ethion	Fenamiphos	Fenthion	g-BHC	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
LOR	0.05-0.1	0.05	0.05	0.05-0.2	0.05-0.2	0.05-0.2	0.05	0.05	0.05-0.2	0.05	0.05	0.05-0.2	0.05-0.2	0.05	0.05-0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05-0.2	0.05	0.05-0.2	0.05	
NEPM 2013 EILS ¹ -Commercial and industrial									640	640																	
NEPM 2013 EILs-Urban Residential and public open space									180	180																	
NEPM 2013 HIL ² - Residential A Soil	50				160					240						270				10							
NEPM 2013 HIL-Commercial/Industrial D Soil	530				2000					3600						2000				100							
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																											
0-1m																											
1-2m																											
2-4m																											
>4m																											
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																											
0-1m																											
1-2m																											
2-4m																											
>4m																											
NEPM 2013 ESL ⁴ - Urban residential and public open space																											
NEPM 2013 ESLs-Commercial and industrial																											

Location Code	Field ID	Sample Date																									
G2H																											
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	320-02-QA0253-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	320-02-QA0353-J00000_CON	17/12/2018	<0.1	-	-	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	0.08	-	<0.2	<0.2	<0.05	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<0.2
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	330-02-QA0351-J00000_CON	12/12/2018	<0.1	-	-	<0.2	<0.2	<0.2	<0.05	<0.05	<0.05	<0.05	-	<0.2	<0.2	<0.05	<0.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	<0.2
	320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

	Pesticides by GCMS										Polychlorinated Biphenyls (PCB)	Phenoxyacetic Acid Herbicides (LCMS - Standard DL)													
	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Methoxychlor	Parathion-methyl	Monocrotophos	Parathion	Pirimphos-ethyl	Prothiofos	PCB (Sum of Total-Lab Reported)	2,4,5- Trichlorophenoxy Acetic Acid	2,4-D	2,4-Dichlorprop	2-Methyl-4-chlorophenoxyacetic acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	4-Chlorophenoxyacetic acid	Clopyralid	Dicamba	Fenoprop	Fluroxypyr	Mecoprop	Picloram	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	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	0.05-0.2	0.05-0.2	0.2-2	0.2-2	0.2	0.05	0.05-0.2	0.1	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02	0.02	0.02-0.5	0.02-0.5	0.02	0.02-0.5	0.02	
NEPM 2013 EILs ¹ -Commercial and industrial																									
NEPM 2013 EILs-Urban Residential and public open space																									
NEPM 2013 HIL ² - Residential A Soil	6		10		300						1	600	900		600	600							600	4500	
NEPM 2013 HIL-Commercial/Industrial D Soil	50		80		2500						7	5000	9000		5000	5000							5000	35000	
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																									
0-1m																									
1-2m																									
2-4m																									
>4m																									
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																									
0-1m																									
1-2m																									
2-4m																									
>4m																									
NEPM 2013 ESL ⁴ - Urban residential and public open space																									
NEPM 2013 ESLs-Commercial and industrial																									

Location Code	Field ID	Sample Date																								
G2H																										
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	320-02-QA0253-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	320-02-QA0353-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2	<0.2	-	<0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	<0.5	
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	330-02-QA0351-J00000_CON	12/12/2018	<0.05	<0.05	<0.05	<0.2	<0.05	<0.2	<2	<0.2	-	<0.2	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	

	SVOC									Total Mercury by FIMS	Total Metals							TRH					
	Triclopyr	Tetrachlorophenols (Sum of total)	Halogenated Phenols (Sum of total)	Dinoseb	2,4-Dinitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexylphenol	4-Nitrophenol	Non-Halogenated Phenols (Sum of total)	Mercury	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	TRH C6 - C10 Fraction F1	TRH C6 - C10 Fraction Less BTEX F1	TRH >C10 - C16 Fraction F2	TRH >C10 - C16 Fraction Less Naphthalene F2	TRH >C16 - C34 Fraction F3	TRH >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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR	0.02	1	1	20	5	5	20	5	20	0.1	5/2.	1/0.4.	2/5.	5	5	2/5.	5	20	20	50	50	100	100
NEPM 2013 EILS ¹ -Commercial and industrial											160		530	300	1800	460	700						
NEPM 2013 EILs-Urban Residential and public open space											100		320	210	1100	270	1100						
NEPM 2013 HIL ² - Residential A Soil										40	100	20		6000	300	400	7400						
NEPM 2013 HIL-Commercial/Industrial D Soil										730	3000	900		240000	1500	6000	400000						
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																							
0-1m																			45 40 50		110		
1-2m																			65 70 90		240		
2-4m																			100 110 150		440		
>4m																			190 200 290				
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																							
0-1m																			250 260 310				
1-2m																			360 370 480				
2-4m																			590 630				
>4m																							
NEPM 2013 ESL ⁴ - Urban residential and public open space																			180	120		300	2800
NEPM 2013 ESLs-Commercial and industrial																			215	170		1700	3300

Location Code	Field ID	Sample Date																							
G2H																									
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	99	45	<5	129	72	-	-	<50	<50	<100	<100
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	139	56	<5	160	71	-	-	<50	<50	<100	<100
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	98	54	6	119	76	-	-	<50	<50	110	<100
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<0.04	-	-	-	-	-	-	-	-	0.1	8	<1	73	46	10	87	91	-	-	<50	<50	<100	<100
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	21	<1	33	45	34	56	86	-	-	<50	<50	180	<100
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<0.04	-	-	-	-	-	-	-	-	0.6	13	<1	47	50	338	99	268	-	-	<50	<50	190	<100
	320-02-QA0253-J00000_CON	17/12/2018	<0.02	-	-	-	-	-	-	-	-	0.6	13	<1	49	52	361	112	282	-	-	<50	<50	210	<100
	320-02-QA0353-J00000_CON	17/12/2018	-	<1	<1	<20	<5	<5	<20	<5	<20	0.3	9.9	<0.4	88	43	190	99	180	<20	<20	<50	<50	<100	<100
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<0.04	-	-	-	-	-	-	-	-	<0.1	<5	<1	10	8	20	6	24	-	-	<50	<50	<100	<100
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	11	<5	7	4	6	-	-	<50	<50	<100	<100
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<0.04	-	-	-	-	-	-	-	-	<0.1	13	<1	125	53	8	130	73	-	-	<50	<50	110	<100
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<0.04	-	-	-	-	-	-	-	-	<0.1	15	<1	95	49	8	115	69	-	-	<50	<50	<100	<100
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	16	<1	85	46	<5	217	53	-	-	<50	<50	<100	<100
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	15	<1	95	47	23	106	97	-	-	<50	<50	<100	<100
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	110	57	<5	126	92	-	-	<50	<50	<100	<100
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	110	57	5	125	106	-	-	<50	<50	<100	<100
	330-02-QA0351-J00000_CON	12/12/2018	-	<1	<1	<20	<5	<5	<20	<5	<20	<0.1	<2	<0.4	130	53	<5	140	94	<20	<20	<50	<50	<100	<100
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	114	51	<5	135	65	-	-	<50	<50	<100	<100
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<0.04	-	-	-	-	-	-	-	-	<0.1	7	<1	66	41	7	81	74	-	-	<50	<50	<100	<100
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	6	<1	86	52	6	118	91	-	-	<50	<50	140	<100
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	97	38	<5	99	64	-	-	<50	<50	<100	<100
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	14	<1	20	35	30	53	59	-	-	<50	<50	260	<100
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	90	52	6	96	65	-	-	<50	<50	<100	<100
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	68	36	<5	121	49	-	-	<50	<50	<100	<100
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	20	<1	61	52	25	156	65	-	-	<50	<50	<100	<100
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	7	<1	119	44	<5	133	74	-	-	<50	<50	<100	<100

	BTEX								Volatile Organic Compoun																		
	Napthalene	Benzene	Toluene	Ethylbenzene	Xylenes (m & p)	Xylene (o)	Xylenes (Sum of total) (Lab Reported)	Total BTEX	Acetone	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2,3-Trichloropropane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2,3-Trichlorobenzene	1,1-Dichloroethene	cis-1,2-Dichloroethene	Napthalene	trans-1,2-dichloroethene	1,2-Dichloropropane	1,2,4-Trichlorobenzene	1,3-Dichloropropane	1,2,4-trimethylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2/0.1	0.5/0.1	0.5/0.1	0.5/0.2	0.5/0.1	0.5/0.3	0.2	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	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 EILS ¹ -Commercial and industrial	370																					370					
NEPM 2013 EILs-Urban Residential and public open space	170																					170					
NEPM 2013 HIL ² - Residential A Soil																											
NEPM 2013 HIL-Commercial/Industrial D Soil																											
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																											
0-1m	3	0.5	160	55			40															3					
1-2m		0.5	220				60																				
2-4m		0.5	310				95																				
>4m		0.5	540				170																				
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																											
0-1m		3					230																				
1-2m		3																									
2-4m		3																									
>4m		3																									
NEPM 2013 ESL ⁴ - Urban residential and public open space		50	85	70			45																				
NEPM 2013 ESLs-Commercial and industrial		75	135	165			95																				

Location Code	Field ID	Sample Date																										
G2H																												
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
	320-02-QA0253-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
	320-02-QA0353-J00000_CON	17/12/2018	-	<0.1	<0.1	<0.1	<0.2	<0.1	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
	330-02-QA0351-J00000_CON	12/12/2018	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

ds																													
	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-dichloropropene	1,2-Dichlorobenzene	cis-1,4-Dichloro-2-butene	trans-1,4-Dichloro-2-butene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	Bromodichloromethane	Bromoform	Bromomethane	1,4-Dichlorobenzene	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	Dibromomethane	Dichlorodifluoromethane	Hexachlorobutadiene	Iodomethane	Pentachloroethane	Trichloroethene	Tetrachloroethene	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	mg/kg	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	0.5-5	0.5	0.5	0.5	0.5	0.5-5	0.5	0.5-5	0.5	0.5-5	0.5	0.5	0.5	0.5	0.5	0.5-5	0.5-5	
NEPM 2013 EILs ¹ -Commercial and industrial																													
NEPM 2013 EILs-Urban Residential and public open space																													
NEPM 2013 HIL ² - Residential A Soil																													
NEPM 2013 HIL-Commercial/Industrial D Soil																													
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																													
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NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																													
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1-2m																													
2-4m																													
>4m																													
NEPM 2013 ESL ⁴ - Urban residential and public open space																													
NEPM 2013 ESLs-Commercial and industrial																													

Location Code	Field ID	Sample Date																												
G2H																														
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	320-02-QA0253-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	320-02-QA0353-J00000_CON	17/12/2018	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	330-02-QA0351-J00000_CON	12/12/2018	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

Volatile Organic Compounds																		
	Methyl Ethyl Ketone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	Methyl iso-butyl ketone	Bromobenzene	Chlorobenzene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Vinyl acetate	Xylenes (m & p)	Xylene (o)	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.5-5	0.5	5	0.5	0.5-5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.2-0.5	0.1-0.5	
NEPM 2013 EILS ¹ -Commercial and industrial																		
NEPM 2013 EILs-Urban Residential and public open space																		
NEPM 2013 HIL ² - Residential A Soil																		
NEPM 2013 HIL-Commercial/Industrial D Soil																		
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																		
0-1m																		
1-2m																		
2-4m																		
>4m																		
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																		
0-1m																		
1-2m																		
2-4m																		
>4m																		
NEPM 2013 ESL ⁴ - Urban residential and public open space																		
NEPM 2013 ESLs-Commercial and industrial																		

Location Code	Field ID	Sample Date																	
G2H																			
320-02-TP2001	320-02-TP2001-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2002	320-02-TP2002-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2003	320-02-TP2003-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2004	320-02-TP2004-J00000_CON	14/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2005	320-02-TP2005-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2006	320-02-TP2006-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	320-02-QA0253-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	320-02-QA0353-J00000_CON	17/12/2018	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	-	-	-	-
320-02-TP2029	320-02-TP2029-J00010_CON	2/04/2019	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2030	320-02-TP2030-J00000_CON	3/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2501	320-02-TP2501-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2502	320-02-TP2502-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2503	320-02-TP2503-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2504	320-02-TP2504-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2505	320-02-QA0251-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2505	320-02-TP2505-J00000_CON	13/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	330-02-QA0351-J00000_CON	12/12/2018	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	-	-	<0.2	<0.1
320-02-TP2506	320-02-TP2506-J00000_CON	14/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2507	320-02-TP2507-J00000_CON	14/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2508	320-02-TP2508-J00000_CON	14/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2509	320-02-TP2509-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2511	320-02-TP2511-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2513	320-02-TP2513-J00000_CON	18/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2514	320-02-TP2514-J00000_CON	17/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2515	320-02-TP2515-J00000_CON	18/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2516	320-02-TP2516-J00000_CON	19/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5

	Asbestos Identification in Soils					OCP			OPP																							
	Asbestos Type	APPROVED IDENTIFIER:	Asbestos (1-Detect or <1-Non-Detect)	Description	Sample weight (dry)	Organochlorine Pesticides (Lab Reported)	Other OCPs (IWRG Lab Reported)	Toxaphene	Bolstar	Coumaphos	Demeton-o	Demeton-S	Disulfoton	EPN	Ethoprop	Fenitrothion	Fensulfothion	Merphos	Mevinphos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Trichloronate	Actril			
LOR	-	--	No	--	g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
NEPM 2013 EILS ¹ -Commercial and industrial			0.1		0.01	0.1	0.1	1	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5		
NEPM 2013 EILs-Urban Residential and public open space																																
NEPM 2013 HIL ² - Residential A Soil								20																								
NEPM 2013 HIL-Commercial/Industrial D Soil								160																								
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																																
0-1m																																
1-2m																																
2-4m																																
>4m																																
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																																
0-1m																																
1-2m																																
2-4m																																
>4m																																
NEPM 2013 ESL ⁴ - Urban residential and public open space																																
NEPM 2013 ESLs-Commercial and industrial																																

Location Code	Field ID	Sample Date	1	1	0	1	28.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	1	1	0	1	28.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	1	1	0	1	44.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	1	1	0	1	36.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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²Health investigation levels (HILs)
³Health screening levels (HSLs)
⁴Ecological screening levels (ESLs)

	Organic						PCB								PAH													
	TRH C6 - C9 Fraction	Naphthalene	TRH C6 - C10 Fraction F1	TRH C6 - C10 Fraction Less BTEX F1	Dinoseb	4,6-Dinitro-2-methylphenol	Aroclor 1016	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1221	PCB (Sum of Total-Lab Reported)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (medium bound)*	Benzo(a)pyrene TEQ (upper bound)*	Benzo(b,j)&(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	20	0.5	20	20	0.5	0.5	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 EILS ¹ -Commercial and industrial		370																										
NEPM 2013 EILs-Urban Residential and public open space		170																										
NEPM 2013 HIL ² - Residential A Soil														1						3	3	3						
NEPM 2013 HIL-Commercial/Industrial D Soil														7						40	40	40						
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																												
0-1m		3 4 5		45 40 50																								
1-2m				65 70 90																								
2-4m				100 110 150																								
>4m				190 200 290																								
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																												
0-1m				250 260 310																								
1-2m				360 370 480																								
2-4m				590 630																								
>4m																												
NEPM 2013 ESL ⁴ - Urban residential and public open space				180															0.7									
NEPM 2013 ESLs-Commercial and industrial				215															1.4									

Location Code	Field ID	Sample Date																												
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5

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²Health investigation levels (HILs)
³Health screening levels (HSLs)
⁴Ecological screening levels (ESLs)

								Phenol																			
	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAH (Sum of Common 16 PAHs - Lab Reported)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,6-Dichlorophenol	4-Chloro-3-methylphenol	Pentachlorophenol	2,4-Dimethylphenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3- & 4- Methylphenol	Phenol	p,p-DDE	a-BHC	Aldrin	Aldrin & Dieldrin (Sum of total) (Lab Reported)	Azinphos-methyl	b-BHC	Bromophos-ethyl	Carbophenothion
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.5-1	0.5-1	0.5	0.5	0.5-1	1-2	0.5	0.5	0.2-0.5	0.5-1	0.4-1	0.5	0.05	0.05	0.05	0.05	0.05-0.2	0.05	0.05	0.05
NEPM 2013 EILs ¹ -Commercial and industrial				370																							
NEPM 2013 EILs-Urban Residential and public open space				170																							
NEPM 2013 HIL ² - Residential A Soil							300						100						3000				6				
NEPM 2013 HIL-Commercial/Industrial D Soil							4000						660						240000				45				
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																											
0-1m				3 4 5																							
1-2m																											
2-4m																											
>4m																											
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																											
0-1m																											
1-2m																											
2-4m																											
>4m																											
NEPM 2013 ESL ⁴ - Urban residential and public open space																											
NEPM 2013 ESLs-Commercial and industrial																											

Location Code	Field ID	Sample Date	<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	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	<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	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	<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	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	<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	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Note:

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¹Ecological investigation levels (EILs)

²Health investigation levels (HILs)

³Health screening levels (HSLs)

⁴Ecological screening levels (ESLs)

Pesticides by GCMS																												
	Chlordane (Sum of total)	cis-Chlordane	trans-Chlordane	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	d-BHC	DDD	DDT	DDT+DDE+DDD (Sum of total) (Lab Reported)	Demeton-s-methyl	Diazinon	Dichlorvos	Dieldrin	Dimethoate	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Ethion	Fenamiphos	Fenthion	g-BHC		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
LOR	0.05-0.1	0.05	0.05	0.05-0.2	0.05-0.2	0.05-0.2	0.05	0.05	0.05-0.2	0.05	0.05	0.05-0.2	0.05-0.2	0.05	0.05-0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05-0.2	0.05	0.05-0.2	0.05		
NEPM 2013 EILS ¹ -Commercial and industrial									640	640																		
NEPM 2013 EILs-Urban Residential and public open space									180	180																		
NEPM 2013 HIL ² - Residential A Soil	50				160					240						270				10								
NEPM 2013 HIL-Commercial/Industrial D Soil	530				2000					3600						2000				100								
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																												
0-1m																												
1-2m																												
2-4m																												
>4m																												
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																												
0-1m																												
1-2m																												
2-4m																												
>4m																												
NEPM 2013 ESL ⁴ - Urban residential and public open space																												
NEPM 2013 ESLs-Commercial and industrial																												
Location Code	Field ID				Sample Date																							
320-02-TP2517	320-02-TP2517-J00000_CON				18/12/2018				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
320-02-TP2518	320-02-TP2518-J00000_CON				19/12/2018				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
320-02-TP2519	320-02-TP2519-J00000_CON				18/12/2018				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		

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²Health investigation levels (HILs)
³Health screening levels (HSLs)
⁴Ecological screening levels (ESLs)

Pesticides by GCMS											Polychlorinated Biphenyls (PCB)	Phenoxyacetic Acid Herbicides (LCMS - Standard DL)													
	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Malathion	Methoxychlor	Parathion-methyl	Monocrotophos	Parathion	Pirimphos-ethyl	Prothiofos	PCB (Sum of Total-Lab Reported)	2,4,5-Trichlorophenoxy Acetic Acid	2,4-D	2,4-Dichlorprop	2-Methyl-4-chlorophenoxyacetic acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	4-(2,4-Dichlorophenoxy) butyric acid (2,4-DB)	4-Chlorophenoxyacetic acid	Clpyralid	Dicamba	Fenoprop	Fluroxypyr	Mecoprop	Picloram	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05-0.2	0.05-0.2	0.2-2	0.2-2	0.2	0.05	0.05-0.2	0.1	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02-0.5	0.02	0.02	0.02-0.5	0.02-0.5	0.02	0.02-0.5	0.02	
NEPM 2013 EILS ¹ -Commercial and industrial																									
NEPM 2013 EILs-Urban Residential and public open space																									
NEPM 2013 HIL ² - Residential A Soil	6		10		300						1	600	900		600	600							600	4500	
NEPM 2013 HIL-Commercial/Industrial D Soil	50		80		2500						7	5000	9000		5000	5000							5000	35000	
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																									
0-1m																									
1-2m																									
2-4m																									
>4m																									
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																									
0-1m																									
1-2m																									
2-4m																									
>4m																									
NEPM 2013 ESL ⁴ - Urban residential and public open space																									
NEPM 2013 ESLs-Commercial and industrial																									

Location Code	Field ID	Sample Date	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	<0.05	<0.05	<0.05	<0.05	<0.2	<0.2	<0.2	<0.2	<0.05	<0.05	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Note:
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⁴Ecological screening levels (ESLs)

	SVOC									Total Mercury by FIMS	Total Metals							TRH					
	Triclopyr	Tetrachlorophenols (Sum of total)	Halogenated Phenols (Sum of total)	Dinoseb	2,4-Dinitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexylphenol	4-Nitrophenol	Non-Halogenated Phenols (Sum of total)	Mercury	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	TRH C6 - C10 Fraction F1	TRH C6 - C10 Fraction Less BTEX F1	TRH >C10 - C16 Fraction F2	TRH >C10 - C16 Fraction Less Naphthalene F2	TRH >C16 - C34 Fraction F3	TRH >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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR	0.02	1	1	20	5	5	20	5	20	0.1	5/2.	1/0.4.	2/5.	5	5	2/5.	5	20	20	50	50	100	100
NEPM 2013 EILs ¹ -Commercial and industrial											160		530	300	1800	460	700						
NEPM 2013 EILs-Urban Residential and public open space											100		320	210	1100	270	1100						
NEPM 2013 HIL ² - Residential A Soil										40	100	20		6000	300	400	7400						
NEPM 2013 HIL-Commercial/Industrial D Soil										730	3000	900		240000	1500	6000	400000						
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																							
0-1m																			45 40 50		110		
1-2m																			65 70 90		240		
2-4m																			100 110 150		440		
>4m																			190 200 290				
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																							
0-1m																			250 260 310				
1-2m																			360 370 480				
2-4m																			590 630				
>4m																							
NEPM 2013 ESL ⁴ - Urban residential and public open space																			180	120		300	2800
NEPM 2013 ESLs-Commercial and industrial																			215	170		1700	3300

Location Code	Field ID	Sample Date																								
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	9	<1	100	54	6	156	71	-	-	<50	<50	<100	<100	
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	<5	<1	90	40	<5	112	68	-	-	<50	<50	<100	<100	
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	<0.02	-	-	-	-	-	-	-	-	<0.1	67	<1	78	95	16	147	80	-	-	<50	<50	<100	<100	

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³Health screening levels (HSLs)

⁴Ecological screening levels (ESLs)

	BTEX								Volatile Organic Compoun																		
	Napthalene	Benzene	Toluene	Ethylbenzene	Xylenes (m & p)	Xylene (o)	Xylenes (Sum of total) (Lab Reported)	Total BTEX	Acetone	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,2,3-Trichloropropane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2,3-Trichlorobenzene	1,1-Dichloroethene	cis-1,2-Dichloroethene	Napthalene	trans-1,2-dichloroethene	1,2-Dichloropropane	1,2,4-Trichlorobenzene	1,3-Dichloropropane	1,2,4-trimethylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2/0.1	0.5/0.1	0.5/0.1	0.5/0.2	0.5/0.1	0.5/0.3	0.2	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	1	0.5	0.5	0.5	0.5	0.5
NEPM 2013 EILS ¹ -Commercial and industrial	370																					370					
NEPM 2013 EILs-Urban Residential and public open space	170																					170					
NEPM 2013 HIL ² - Residential A Soil																											
NEPM 2013 HIL-Commercial/Industrial D Soil																											
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																											
0-1m	3	0.5	160	55			40															3					
1-2m		0.5	220				60																				
2-4m		0.5	310				95																				
>4m		0.5	540				170																				
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																											
0-1m		3					230																				
1-2m		3																									
2-4m		3																									
>4m		3																									
NEPM 2013 ESL ⁴ - Urban residential and public open space		50	85	70			45																				
NEPM 2013 ESLs-Commercial and industrial		75	135	165			95																				

Location Code	Field ID	Sample Date																									
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

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³Health screening levels (HSLs)
⁴Ecological screening levels (ESLs)

ds																																	
	2,2-Dichloropropane	1,1-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-dichloropropene	1,2-Dichlorobenzene	cis-1,4-Dichloro-2-butene	trans-1,4-Dichloro-2-butene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	Bromodichloromethane	Bromoform	Bromomethane	1,4-Dichlorobenzene	Carbon disulfide	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	Dibromomethane	Dichlorodifluoromethane	Hexachlorobutadiene	Iodomethane	Pentachloroethane	Trichloroethene	Tetrachloroethene	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	mg/kg	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	0.5-5	0.5	0.5	0.5	0.5	0.5-5	0.5	0.5-5	0.5	0.5-5	0.5	0.5	0.5	0.5	0.5	0.5-5	0.5-5					
NEPM 2013 EILS ¹ -Commercial and industrial																																	
NEPM 2013 EILs-Urban Residential and public open space																																	
NEPM 2013 HIL ² - Residential A Soil																																	
NEPM 2013 HIL-Commercial/Industrial D Soil																																	
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																																	
0-1m																																	
1-2m																																	
2-4m																																	
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0-1m																																	
1-2m																																	
2-4m																																	
>4m																																	
NEPM 2013 ESL ⁴ - Urban residential and public open space																																	
NEPM 2013 ESLs-Commercial and industrial																																	
Location Code	Field ID		Sample Date																														
320-02-TP2517	320-02-TP2517-J00000_CON		18/12/2018		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<5				
320-02-TP2518	320-02-TP2518-J00000_CON		19/12/2018		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<5				
320-02-TP2519	320-02-TP2519-J00000_CON		18/12/2018		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<5					

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Volatile Organic Compounds																			
	Methyl Ethyl Ketone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	Methyl iso-butyl ketone	Bromobenzene	Chlorobenzene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Vinyl acetate	Xylenes (m & p)	Xylene (o)		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.5-5	0.5	5	0.5	0.5-5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.2-0.5	0.1-0.5		
NEPM 2013 EILs ¹ -Commercial and industrial																			
NEPM 2013 EILs-Urban Residential and public open space																			
NEPM 2013 HIL ² - Residential A Soil																			
NEPM 2013 HIL-Commercial/Industrial D Soil																			
NEPM 2013 Residential Soil HSL ³ A/B for Vapour Intrusion																			
0-1m																			
1-2m																			
2-4m																			
>4m																			
NEPM 2013 Commercial/Industrial D Soil HSL for Vapour Intrusion																			
0-1m																			
1-2m																			
2-4m																			
>4m																			
NEPM 2013 ESL ⁴ - Urban residential and public open space																			
NEPM 2013 ESLs-Commercial and industrial																			

Location Code	Field ID	Sample Date																	
320-02-TP2517	320-02-TP2517-J00000_CON	18/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2518	320-02-TP2518-J00000_CON	19/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
320-02-TP2519	320-02-TP2519-J00000_CON	18/12/2018	<5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5

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