Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556K, Austral
Envirolab Reference	133830
Date Sample Received	04/09/2015
Date Instructions Received	04/09/2015
Date Results Expected to be Reported	11/09/2015

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	2 Waters
Turnaround Time Requested	Standard
Temperature on receipt (°C)	6.6
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolabservices.com.au	Email: jhurst@envirolabservices.com.au

Sample and Testing Details on following page

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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Sample Id	*vTRH(C6-C10)/BTEXN in Water*	*svTRH (C10-C40) in Water*	*PAHs in Water - Low Level*	*OCP in water - trace level*	*OP Pesticides -Trace Level*	*PCB in water - trace level*	*HM in water - dissolved*	*Calcium - Dissolved*	*Electrical Conductivity*	*Hardness*	*Magnesium - Dissolved*	*pH*
DW1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TBW1	✓											

TO:
Envirolab Services Pty Ltd
12 Ashley St, Chatswood 2067

Phone: (02) 9910 6200
Fax: (02) 9910 6201

Attention: Aileen

Date Results Required: STANDARD

SAMPLE AND CHAIN OF CUSTODY FORM

EIS Job Number: E27556K

Sheet 1 / 1

FROM:
Environmental Investigation Services

Rear 115 Wicks Road
Macquarie Park NSW 2113

Phone: (02) 9888 5000
Fax: (02) 9888 5004

Contact: Mitch Delaney

Project: Proposed School
Location: Austral
Sampler: JS

Sample Preservation:
In esky on ice

	Date Sampled	Time Sampled	Location	Sample/ Borehole Number	Sample Container	PID (ppm/ Odour)	Sample Description	Tests Required: Combo 3L	Heavy metals	TPH/BTEX	VOCs	PAHs	pH / EC / Hardness	BTEX	OC/OP/PCBs (Attalens)		Comments/Detection Limits Required
1	3-9-15	pm	~~DAM1~~ DW1	NA	4 0.5L Amber Bottle 2 BTEX Vials HDPE Plastic Bottle 0.5L Plastic Bottle	NA	Water	X					X		X		
	↓	↓	Dup/S1	↓	4x 0.5L Amber Bottle 2 BTEX Vials HDPE Plastic Bottle	NA	↓	X									please send DUP/S1 to Envirolab VIC.
2	3-9-15	pm	TBW1	↓	1 BTEX vial	NA	↓							X			

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 133830
Date Received: 4/9/15
Time Received: 17:15
Received by: D.F.
Temp: ~~Cool~~/Ambient
Cooling: Ice/~~Icepack~~
Security: ~~Intact~~/Broken/None

Relinquished By:	Date: 4-9-15 Time: pm	Received By: David Ford - EIS
Relinquished By:	Date: Time:	Received By:

Remarks:

All analysis PQLs to ANZECC (2000) Detection Limits Please

A division of Envirolab Group

Envirolab Services Pty Ltd - Melbourne
ABN 37 112 535 645 - 02
1 Dalmore Drive, Scoresby VIC 3179 Australia
Ph +613 9763 2500 Fax +613 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 6989

Client:
Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:	**E27556K - Proposed School**
No. of samples:	1 Water
Date samples received / completed instructions received	08/09/2015 / 08/09/2015

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	14/09/15 / 14/09/15
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Analisa Mathrick
Laboratory Manager

ACCREDITED FOR TECHNICAL COMPETENCE

vTRH(C6-C10)/BTEXN in Water		
Our Reference:	UNITS	6989-1
Your Reference	----------	DupJS1
Date Sampled	----------	3/09/2015
Type of sample		Water
Date extracted	-	08/09/2015
Date analysed	-	09/09/2015
TRHC$_6$ - C$_9$	µg/L	<10
TRHC$_6$ - C$_{10}$	µg/L	<10
TRHC$_6$ - C$_{10}$ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	102
Surrogate toluene-d8	%	94
Surrogate 4-BFB	%	97

TRH Water(C10-C40) NEPM		
Our Reference:	UNITS	6989-1
Your Reference	----------	DupJS1
Date Sampled	----------	3/09/2015
Type of sample		Water
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
TRHC$_{10}$ - C$_{14}$	µg/L	<50
TRHC$_{15}$ - C$_{28}$	µg/L	<100
TRHC$_{29}$ - C$_{36}$	µg/L	<100
TRH>C$_{10}$ - C$_{16}$	µg/L	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	µg/L	<50
TRH>C$_{16}$ - C$_{34}$	µg/L	<100
TRH>C$_{34}$ - C$_{40}$	µg/L	<100
Surrogate o-Terphenyl	%	90

PAHs in Water - Low Level		
Our Reference:	UNITS	6989-1
Your Reference	----------	DupJS1
Date Sampled	----------	3/09/2015
Type of sample		Water
Date extracted	-	09/09/2015
Date analysed	-	09/09/2015
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j&k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Total +ve PAH's	µg/L	NIL (+)VE PAH
Benzo(a)pyrene TEQ	µg/L	<0.5
Surrogate p-Terphenyl-d_{14}	%	126

HM in water - dissolved		
Our Reference:	UNITS	6989-1
Your Reference	----------	DupJS1
Date Sampled	----------	3/09/2015
Type of sample		Water
Date prepared	-	11/09/2015
Date analysed	-	11/09/2015
Arsenic-Dissolved	µg/L	1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	2
Lead-Dissolved	µg/L	<1
Nickel-Dissolved	µg/L	1
Zinc-Dissolved	µg/L	4
Mercury-Dissolved	µg/L	<0.05

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater 2013.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Water	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/09/2015	[NT]	[NT]	LCS-1	08/09/2015
Date analysed	-			08/09/2015	[NT]	[NT]	LCS-1	08/09/2015
TRH C_6 - C_9	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-1	107%
TRH C_6 - C_{10}	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-1	100%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-1	114%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-1	106%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-1	111%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-1	115%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-1	111%
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-1	100%
Surrogate Dibromofluoromethane	%		Org-016	103	[NT]	[NT]	LCS-1	101%
Surrogate toluene-d8	%		Org-016	96	[NT]	[NT]	LCS-1	94%
Surrogate 4-BFB	%		Org-016	94	[NT]	[NT]	LCS-1	99%

QUALITY CONTROL TRH Water(C10-C40) NEPM	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-W1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-W1	10/09/2015
TRH C_{10} - C_{14}	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	93%
TRH C_{15} - C_{28}	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	90%
TRH C_{29} - C_{36}	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	81%
TRH>C_{10} - C_{16}	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	91%
TRH>C_{16} - C_{34}	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	89%
TRH>C_{34} - C_{40}	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	90%
Surrogate o-Terphenyl	%		Org-003	80	[NT]	[NT]	LCS-W1	91%

QUALITY CONTROL PAHs in Water - Low Level	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Naphthalene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	62%
Acenaphthylene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	66%
Phenanthrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	70%
Anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	74%
Pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	84%
Benzo(a)anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	70%
Benzo(b,j&k) fluoranthene	µg/L	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	78%
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%		Org-012 subset	116	[NT]	[NT]	LCS-1	96%

Client Reference: E27556K - Proposed School

QUALITY CONTROL HM in water - dissolved	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date prepared	-			11/09/2015	6989-1	11/09/2015 || 11/09/2015	LCS-1	11/09/2015
Date analysed	-			11/09/2015	6989-1	11/09/2015 || 11/09/2015	LCS-1	11/09/2015
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	1 || 1 || RPD: 0	LCS-1	103%
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	6989-1	<0.1 || <0.1	LCS-1	107%
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	<1 || <1	LCS-1	105%
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	2 || 2 || RPD: 0	LCS-1	101%
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	<1 || <1	LCS-1	103%
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	1 || 1 || RPD: 0	LCS-1	105%
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	6989-1	4 || 4 || RPD: 0	LCS-1	106%
Mercury-Dissolved	µg/L	0.05	Metals-021 CV-AAS	<0.05	6989-1	<0.05 || [N/T]	LCS-1	101%

QUALITY CONTROL HM in water - dissolved	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	6989-1	11/09/2015
Date analysed	-	[NT]	[NT]	6989-1	11/09/2015
Arsenic-Dissolved	µg/L	[NT]	[NT]	6989-1	115%
Cadmium-Dissolved	µg/L	[NT]	[NT]	6989-1	109%
Chromium-Dissolved	µg/L	[NT]	[NT]	6989-1	107%
Copper-Dissolved	µg/L	[NT]	[NT]	6989-1	101%
Lead-Dissolved	µg/L	[NT]	[NT]	6989-1	100%
Nickel-Dissolved	µg/L	[NT]	[NT]	6989-1	103%
Zinc-Dissolved	µg/L	[NT]	[NT]	6989-1	109%
Mercury-Dissolved	µg/L	[NT]	[NT]	[NR]	[NR]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

ENVIROLAB SERVICES

A division of Envirolab Group

ENVIROLAB GROUP

Envirolab Services Pty Ltd - Melbourne
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melbourne@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556K - Proposed School
Envirolab Reference	6989
Date Sample Received	08/09/2015
Date Instructions Received	08/09/2015
Date Results Expected to be Reported	14/09/2015

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	1 Water
Turnaround Time Requested	Not Advised
Temperature on receipt (°C)	12.5C
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Chris De Luca	Analisa Mathrick
Phone: 03 9763 2500	Phone: 03 9763 2500
Fax: 03 9763 2633	Fax: 03 9763 2633
Email: Cdeluca@envirolab.com.au	Email: amathrick@envirolab.com.au

Sample and Testing Details on following page

ENVIROLAB SERVICES
A division of Envirolab Group
ENVIROLAB GROUP
Envirolab Services Pty Ltd - Melbourne
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1 Dalmore Drive, Scoresby, VIC 3179 Australia
PH +613 9763 2500 Fax +613 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

Sample Id	*vTRH(C6-C10)/BTEXN in Water*	*TRH Water(C10-C40) NEPM*	*PAHs in Water - Low Level*	*HM in water - dissolved*
DupJS1	✓	✓	✓	✓

TO:
Envirolab Services Pty Ltd
12 Ashley St, Chatswood 2067

Phone: (02) 9910 6200
Fax: (02) 9910 6201

Attention: Aileen

Date Results Required: STANDARD

SAMPLE AND CHAIN OF CUSTODY FORM

EIS Job Number: E27556K

Sheet 1 / 1

FROM:
Environmental Investigation Services

Rear 115 Wicks Road
Macquarie Park NSW 2113

Phone: (02) 9888 5000
Fax: (02) 9888 5004

Contact: Mitch Delaney

Project: Proposed School
Location: Austral
Sampler: JS

Tests Required

Sample Preservation:
In esky on ice

	Date Sampled	Time Sampled	Location	Sample/ Borehole Number	Sample Container	PID (ppm/ Odour)	Sample Description	Combo 3L	Heavy metals	TPH/BTEX	VOCs	PAHs	pH / EC / Hardness	BTEX	ocp/opp/PCBs (Asbestos)	Comments/Detection Limits Required
1	3-9-15	pm	~~DUP1~~ DW1	NA	4 - 0.5L Amber Bottle 2 BTEX Vials HDPE Plastic Bottle 0.5L Plastic Bottle	NA	Water	X					X		X	
1	↓	↓	Dup SS1	↓	4 - 0.5L Amber Bottle 2 BTEX Vials HDPE Plastic Bottle	NA	↓	X								please send DUP SS1 to Envirolab VIC.
2	3-9-15	pm	TBW1	↓	1 BTEX vial	NA	↓							X		

ENVIROLAB
Envirolab Services
14 Dalmore Drive
Caribbean Park
Scoresby VIC 3179
Ph: (03) 9763 2500
Job No: 6989
Date Received: 8/9/15
Time Received: 11:30
Received by: MS
Temp: Cool/Ambient 12.5°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 133830
Date Received: 4/9/15
Time Received: 17:15
Received by: D.F.
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished By: MS	Date: 4-9-15 Time: pm	Received By: David Ford - EIS	
Relinquished By: Pratistha (EIS)	Date: 7/9/15 Time: 12:00	Received By: M SAAD (EIS) 8/9/15 11:30	

Remarks:

All analysis PQLs to ANZECC (2000) Detection Limits Please

12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS 144438

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:	**E27556KD, Austral**
No. of samples:	3 materials 28 soils
Date samples received / completed instructions received	07/04/16 / 07/04/16

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	14/04/16 / 14/04/16
Date of Preliminary Report:	Not Issued

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Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	---------- -	TP51	TP52	TP52	TP52	TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	<25	<25	<25	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25	<25	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	95	90	88	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	144438-7	144438-9	144438-11	144438-12	144438-13
Your Reference	---------- -	TP53	TP54	TP55	TP55	TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	<25	<25	<25	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25	<25	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	91	94	91	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	---------- -	TP57	TP57	TP58	TP58	TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	<25	<25	<25	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25	<25	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	79	92	97	97	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-28
Your Reference	---------- -	TP60	TP60	TP60	DUP21	TB2A
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	<25	<25	<25	<25	[NA]
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25	<25	<25	[NA]
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	[NA]
Surrogate aaa-Trifluorotoluene	%	93	84	97	97	105

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	144438-29	144438-30
Your Reference	---------- -	TSA1	SSA1
Depth	----------	-	-
Date Sampled		6/04/2016	6/04/2016
Type of sample		soil	soil
Date extracted	-	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	[NA]	<25
TRHC$_6$ - C$_{10}$	mg/kg	[NA]	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	[NA]	<25
Benzene	mg/kg	92%	<0.2
Toluene	mg/kg	91%	<0.5
Ethylbenzene	mg/kg	91%	<1
m+p-xylene	mg/kg	91%	<2
o-Xylene	mg/kg	89%	<1
naphthalene	mg/kg	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	91	101

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	---------- -	TP51	TP52	TP52	TP52	TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50	<50	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100	<100	<100	<100	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	83	81	84	79	83

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	144438-7	144438-9	144438-11	144438-12	144438-13
Your Reference	---------- -	TP53	TP54	TP55	TP55	TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50	<50	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100	<100	<100	<100	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	80	84	80	78	83

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	---------- -	TP57	TP57	TP58	TP58	TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	75	<50	<50	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	710	<100	<100	<100	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	300	<100	<100	<100	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	120	<50	<50	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	120	<50	<50	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	920	<100	<100	<100	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	94	86	87	83	82

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	---------- -	TP60	TP60	TP60	DUP21	SSA1
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50	<50	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100	<100	<100	<100	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100	<100	<100	<100	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	83	83	83	81

PAHs in Soil Our Reference: Your Reference	UNITS ----------	144438-1 TP51	144438-3 TP52	144438-4 TP52	144438-5 TP52	144438-6 TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	<0.1	0.1	<0.1	0.1
Pyrene	mg/kg	0.2	<0.1	0.1	<0.1	0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	1.3	NIL (+)VE	0.24	NIL (+)VE	0.22
Surrogate p-Terphenyl-d14	%	81	95	98	108	106

PAHs in Soil Our Reference: Your Reference	UNITS ----------	144438-7 TP53	144438-9 TP54	144438-11 TP55	144438-12 TP55	144438-13 TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	72	104	108	103	75

PAHs in Soil Our Reference: Your Reference	UNITS ---------- -	144438-15 TP57	144438-16 TP57	144438-18 TP58	144438-19 TP58	144438-20 TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	82	98	97	99	99

PAHs in Soil Our Reference: Your Reference	UNITS ----------	144438-22 TP60	144438-23 TP60	144438-24 TP60	144438-27 DUP21	144438-30 SSA1
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.4	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.3	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	1.8	NIL (+)VE
Surrogate p-Terphenyl-d14	%	98	96	97	98	100

Organochlorine Pesticides in soil						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	----------	TP51	TP52	TP52	TP52	TP53
Depth	- ----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	99	95	97	103	97

Organochlorine Pesticides in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- - ---------- 	144438-7 TP53 1.0-1.2 6/04/2016 soil	144438-9 TP54 0-0.2 6/04/2016 soil	144438-11 TP55 0-0.3 6/04/2016 soil	144438-12 TP55 0.4-0.6 6/04/2016 soil	144438-13 TP56 0-0.3 6/04/2016 soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	98	100	98	100	100

Organochlorine Pesticides in soil						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	----------	TP57	TP57	TP58	TP58	TP59
	-					
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	74	95	93	97	90

Organochlorine Pesticides in soil						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	----------	TP60	TP60	TP60	DUP21	SSA1
Depth	- ----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	92	93	100	98

Organophosphorus Pesticides						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	---------- -	TP51	TP52	TP52	TP52	TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	99	95	97	103	97

Organophosphorus Pesticides						
Our Reference:	UNITS	144438-7	144438-9	144438-11	144438-12	144438-13
Your Reference	---------- -	TP53	TP54	TP55	TP55	TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	98	100	98	100	100

Organophosphorus Pesticides						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	---------- -	TP57	TP57	TP58	TP58	TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	74	95	93	97	90

Organophosphorus Pesticides						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	---------- -	TP60	TP60	TP60	DUP21	SSA1
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	92	93	100	98

PCBs in Soil Our Reference: Your Reference	UNITS ----------	144438-1 TP51	144438-3 TP52	144438-4 TP52	144438-5 TP52	144438-6 TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	99	95	97	103	97

PCBs in Soil Our Reference: Your Reference	UNITS ----------	144438-7 TP53	144438-9 TP54	144438-11 TP55	144438-12 TP55	144438-13 TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	100	98	100	100

PCBs in Soil						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	----------	TP57	TP57	TP58	TP58	TP59
	-					
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	74	95	93	97	90

PCBs in Soil						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	----------	TP60	TP60	TP60	DUP21	SSA1
	-					
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	09/04/2016	09/04/2016	09/04/2016	09/04/2016	09/04/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	88	92	93	100	98

Acid Extractable metals in soil						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	----------	TP51	TP52	TP52	TP52	TP53
Depth	- ----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Arsenic	mg/kg	7	10	19	10	6
Cadmium	mg/kg	<0.4	<0.4	0.5	<0.4	<0.4
Chromium	mg/kg	19	15	9	23	13
Copper	mg/kg	27	26	150	24	25
Lead	mg/kg	50	26	460	17	56
Mercury	mg/kg	1.3	<0.1	0.2	<0.1	0.3
Nickel	mg/kg	10	11	9	7	8
Zinc	mg/kg	99	72	720	32	73

Acid Extractable metals in soil						
Our Reference:	UNITS	144438-7	144438-9	144438-11	144438-12	144438-13
Your Reference	----------	TP53	TP54	TP55	TP55	TP56
Depth	- ----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Arsenic	mg/kg	9	13	10	10	10
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	21	25	26	27	28
Copper	mg/kg	31	23	18	23	18
Lead	mg/kg	20	22	16	15	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	4	5	5	6
Zinc	mg/kg	50	43	28	18	25

Acid Extractable metals in soil						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	---------- -	TP57	TP57	TP58	TP58	TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Arsenic	mg/kg	6	8	10	6	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	10	23	29	16	18
Copper	mg/kg	43	33	18	15	32
Lead	mg/kg	12	18	20	11	18
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	7	6	3	11
Zinc	mg/kg	160	41	26	11	51

Acid Extractable metals in soil						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	---------- -	TP60	TP60	TP60	DUP21	SSA1
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Date analysed	-	08/04/2016	08/04/2016	08/04/2016	08/04/2016	08/04/2016
Arsenic	mg/kg	8	7	5	7	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	25	13	14	19	24
Copper	mg/kg	29	24	18	25	26
Lead	mg/kg	20	22	13	51	25
Mercury	mg/kg	<0.1	<0.1	<0.1	0.6	<0.1
Nickel	mg/kg	16	12	6	9	8
Zinc	mg/kg	76	60	25	87	59

Moisture						
Our Reference:	UNITS	144438-1	144438-3	144438-4	144438-5	144438-6
Your Reference	---------- -	TP51	TP52	TP52	TP52	TP53
Depth	----------	0-0.3	0-0.3	0.7-1.0	1.3-1.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	8/04/2016	8/04/2016	8/04/2016	8/04/2016	8/04/2016
Date analysed	-	11/04/2016	11/04/2016	11/04/2016	11/04/2016	11/04/2016
Moisture	%	16	14	9.3	14	9.5

Moisture						
Our Reference:	UNITS	144438-7	144438-9	144438-11	144438-12	144438-13
Your Reference	---------- -	TP53	TP54	TP55	TP55	TP56
Depth	----------	1.0-1.2	0-0.2	0-0.3	0.4-0.6	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	8/04/2016	8/04/2016	8/04/2016	8/04/2016	8/04/2016
Date analysed	-	11/04/2016	11/04/2016	11/04/2016	11/04/2016	11/04/2016
Moisture	%	20	9.8	8.8	20	11

Moisture						
Our Reference:	UNITS	144438-15	144438-16	144438-18	144438-19	144438-20
Your Reference	---------- -	TP57	TP57	TP58	TP58	TP59
Depth	----------	0-0.05	0.05-0.2	0-0.25	0.3-0.5	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	8/04/2016	8/04/2016	8/04/2016	8/04/2016	8/04/2016
Date analysed	-	11/04/2016	11/04/2016	11/04/2016	11/04/2016	11/04/2016
Moisture	%	37	11	8.8	16	11

Moisture						
Our Reference:	UNITS	144438-22	144438-23	144438-24	144438-27	144438-30
Your Reference	---------- -	TP60	TP60	TP60	DUP21	SSA1
Depth	----------	0-0.3	0.6-0.9	1.2-1.4	-	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	8/04/2016	8/04/2016	8/04/2016	8/04/2016	8/04/2016
Date analysed	-	11/04/2016	11/04/2016	11/04/2016	11/04/2016	11/04/2016
Moisture	%	11	13	16	12	12

Asbestos ID - soils						
Our Reference:	UNITS	144438-1	144438-3	144438-6	144438-9	144438-11
Your Reference	---------- -	TP51	TP52	TP53	TP54	TP55
Depth	----------	0-0.3	0-0.3	0-0.3	0-0.2	0-0.3
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	12/04/2016	12/04/2016	12/04/2016	12/04/2016	12/04/2016
Sample mass tested	g	Approx. 30g	Approx. 25g	Approx. 35g	Approx. 20g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference:	UNITS	144438-13	144438-15	144438-16	144438-18	144438-20
Your Reference	---------- -	TP56	TP57	TP57	TP58	TP59
Depth	----------	0-0.3	0-0.05	0.05-0.2	0-0.25	0-0.25
Date Sampled		6/04/2016	6/04/2016	6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	12/04/2016	12/04/2016	12/04/2016	12/04/2016	12/04/2016
Sample mass tested	g	Approx. 25g	Approx. 5g	Approx. 35g	Approx. 20g	Approx. 45g
Sample Description	-	Brown coarse-grained soil & rocks	Brown organic fibrous debris	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils		
Our Reference:	UNITS	144438-22
Your Reference	---------- -	TP60
Depth	----------	0-0.3
Date Sampled		6/04/2016
Type of sample		soil
Date analysed	-	12/04/2016
Sample mass tested	g	Approx. 25g
Sample Description	-	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected

Asbestos ID - materials				
Our Reference:	UNITS	144438-25	144438-26	144438-31
Your Reference	----------	TP57	TP60	SFA
	-			
Depth	----------	0.15	0.2	-
Date Sampled		6/04/2016	6/04/2016	6/04/2016
Type of sample		soil	material	material
Date analysed	-	13/04/2016	13/04/2016	13/04/2016
Mass / Dimension of Sample	-	32x20x5mm	37x25x5mm	45x40x5mm
Sample Description	-	Grey compressed fibre cement material	Grey compressed fibre cement material	Beige compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	No asbestos detected Organic Fibre Detected

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	144438-1	<25 || <25	LCS-8	108%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	144438-1	<25 || <25	LCS-8	108%
Benzene	mg/kg	0.2	Org-016	<0.2	144438-1	<0.2 || <0.2	LCS-8	106%
Toluene	mg/kg	0.5	Org-016	<0.5	144438-1	<0.5 || <0.5	LCS-8	98%
Ethylbenzene	mg/kg	1	Org-016	<1	144438-1	<1 || <1	LCS-8	108%
m+p-xylene	mg/kg	2	Org-016	<2	144438-1	<2 || <2	LCS-8	113%
o-Xylene	mg/kg	1	Org-016	<1	144438-1	<1 || <1	LCS-8	105%
naphthalene	mg/kg	1	Org-014	<1	144438-1	<1 || <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	101	144438-1	95 || 89 || RPD: 7	LCS-8	99%

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			09/04/2016	144438-1	09/04/2016 || 09/04/2016	LCS-8	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	144438-1	<50 || <50	LCS-8	82%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	144438-1	<100 || <100	LCS-8	69%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	144438-1	<100 || <100	LCS-8	74%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	144438-1	<50 || <50	LCS-8	82%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	144438-1	<100 || <100	LCS-8	69%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	144438-1	<100 || <100	LCS-8	74%
Surrogate o-Terphenyl	%		Org-003	85	144438-1	83 || 82 || RPD: 1	LCS-8	110%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Naphthalene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	LCS-8	109%
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	LCS-8	107%
Phenanthrene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Anthracene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	144438-1	0.2 || 0.2 || RPD: 0	LCS-8	106%
Pyrene	mg/kg	0.1	Org-012	<0.1	144438-1	0.2 || 0.2 || RPD: 0	LCS-8	124%
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	144438-1	0.1 || 0.1 || RPD: 0	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012	<0.1	144438-1	0.1 || 0.1 || RPD: 0	LCS-8	84%
Benzo(b,j+k) fluoranthene	mg/kg	0.2	Org-012	<0.2	144438-1	0.3 || 0.3 || RPD: 0	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	144438-1	0.2 || 0.2 || RPD: 0	LCS-8	105%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	144438-1	0.1 || <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	144438-1	0.1 || 0.1 || RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	108	144438-1	81 || 92 || RPD: 13	LCS-8	80%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			09/04/2016	144438-1	09/04/2016 || 09/04/2016	LCS-8	09/04/2016
HCB	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	90%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	91%
Heptachlor	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	93%
delta-BHC	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	91%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	92%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	144438-1	0.1 || <0.1	LCS-8	91%
Dieldrin	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	94%
Endrin	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	98%
pp-DDD	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	82%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	LCS-8	93%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	99	144438-1	99 || 97 || RPD: 2	LCS-8	126%

QUALITY CONTROL Organophosphorus Pesticides	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			09/04/2016	144438-1	09/04/2016 || 09/04/2016	LCS-8	09/04/2016
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	90%
Chlorpyriphos-methyl	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	94%
Dimethoate	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	97%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	83%
Malathion	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	95%
Parathion	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	97%
Ronnel	mg/kg	0.1	Org-008	<0.1	144438-1	<0.1 || <0.1	LCS-8	102%
Surrogate TCMX	%		Org-008	99	144438-1	99 || 97 || RPD: 2	LCS-8	109%
QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-8	08/04/2016
Date analysed	-			09/04/2016	144438-1	09/04/2016 || 09/04/2016	LCS-8	09/04/2016
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	LCS-8	96%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	144438-1	<0.1 || <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	99	144438-1	99 || 97 || RPD: 2	LCS-8	109%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date prepared	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-7	08/04/2016
Date analysed	-			08/04/2016	144438-1	08/04/2016 || 08/04/2016	LCS-7	08/04/2016
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	144438-1	7 || 9 || RPD: 25	LCS-7	112%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	144438-1	<0.4 || <0.4	LCS-7	103%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	144438-1	19 || 23 || RPD: 19	LCS-7	111%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	144438-1	27 || 41 || RPD: 41	LCS-7	112%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	144438-1	50 || 50 || RPD: 0	LCS-7	106%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	144438-1	1.3 || 0.9 || RPD: 36	LCS-7	88%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	144438-1	10 || 14 || RPD: 33	LCS-7	106%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	144438-1	99 || 110 || RPD: 11	LCS-7	106%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
Date analysed	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
TRHC$_6$ - C$_9$	mg/kg	144438-15	<25 || <25	144438-3	107%
TRHC$_6$ - C$_{10}$	mg/kg	144438-15	<25 || <25	144438-3	107%
Benzene	mg/kg	144438-15	<0.2 || <0.2	144438-3	104%
Toluene	mg/kg	144438-15	<0.5 || <0.5	144438-3	96%
Ethylbenzene	mg/kg	144438-15	<1 || <1	144438-3	108%
m+p-xylene	mg/kg	144438-15	<2 || <2	144438-3	113%
o-Xylene	mg/kg	144438-15	<1 || <1	144438-3	104%
naphthalene	mg/kg	144438-15	<1 || <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%	144438-15	79 || 79 || RPD: 0	144438-3	95%

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
Date analysed	-	144438-15	09/04/2016 || 09/04/2016	144438-3	09/04/2016
TRHC$_{10}$ - C$_{14}$	mg/kg	144438-15	75 || 130 || RPD: 54	144438-3	101%
TRHC$_{15}$ - C$_{28}$	mg/kg	144438-15	710 || 1000 || RPD: 34	144438-3	105%
TRHC$_{29}$ - C$_{36}$	mg/kg	144438-15	300 || 500 || RPD: 50	144438-3	79%
TRH>C$_{10}$-C$_{16}$	mg/kg	144438-15	120 || 200 || RPD: 50	144438-3	101%
TRH>C$_{16}$-C$_{34}$	mg/kg	144438-15	920 || 1400 || RPD: 41	144438-3	105%
TRH>C$_{34}$-C$_{40}$	mg/kg	144438-15	<100 || 100	144438-3	79%
Surrogate o-Terphenyl	%	144438-15	94 || 99 || RPD: 5	144438-3	92%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
Date analysed	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
Naphthalene	mg/kg	144438-15	<0.1 || <0.1	144438-3	94%
Acenaphthylene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Acenaphthene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	144438-15	<0.1 || <0.1	144438-3	89%
Phenanthrene	mg/kg	144438-15	<0.1 || <0.1	144438-3	116%
Anthracene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Fluoranthene	mg/kg	144438-15	<0.1 || <0.1	144438-3	87%
Pyrene	mg/kg	144438-15	<0.1 || <0.1	144438-3	102%
Benzo(a)anthracene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Chrysene	mg/kg	144438-15	<0.1 || <0.1	144438-3	80%
Benzo(b,j+k)fluoranthene	mg/kg	144438-15	<0.2 || <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	144438-15	<0.05 || <0.05	144438-3	74%
Indeno(1,2,3-c,d)pyrene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	144438-15	82 || 92 || RPD: 11	144438-3	96%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	144438-15	08/04/2016 || 08/04/2016	144438-3	08/04/2016
Date analysed	-	144438-15	09/04/2016 || 09/04/2016	144438-3	09/04/2016
HCB	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
alpha-BHC	mg/kg	144438-15	<0.1 || <0.1	144438-3	84%
gamma-BHC	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
beta-BHC	mg/kg	144438-15	<0.1 || <0.1	144438-3	#
Heptachlor	mg/kg	144438-15	<0.1 || <0.1	144438-3	95%
delta-BHC	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Aldrin	mg/kg	144438-15	<0.1 || <0.1	144438-3	80%
Heptachlor Epoxide	mg/kg	144438-15	<0.1 || <0.1	144438-3	74%
gamma-Chlordane	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Endosulfan I	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
pp-DDE	mg/kg	144438-15	<0.1 || <0.1	144438-3	69%
Dieldrin	mg/kg	144438-15	<0.1 || <0.1	144438-3	81%
Endrin	mg/kg	144438-15	<0.1 || <0.1	144438-3	62%
pp-DDD	mg/kg	144438-15	<0.1 || <0.1	144438-3	93%
Endosulfan II	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
pp-DDT	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	144438-15	<0.1 || <0.1	144438-3	103%
Methoxychlor	mg/kg	144438-15	<0.1 || <0.1	[NR]	[NR]
Surrogate TCMX	%	144438-15	74 || 79 || RPD: 7	144438-3	113%