

Environmental Investigations
Contamination | Remediation | Geotechnical **Australia**

[illegible]

Water Quality Meter Calibration Log

Instrument: Hanna Multi Parameter 9828 – Serial no. 08267834

Sensor (Unit of measure)	Standard Solutions Used	Solution Batch Number	Instrument Reading	
			Initial	Post Calibration
pH	4.01 7.01	Lot 50256/13	3.83 7.00	4.01 @ 25°C 7.01 @ 25°C
ORP (mV)	240mV @ 25°C	Lot 4010 K	231.7	
Conductivity (µs/cm)	1413µs @ 25°C 12.88ms	KA 104 S	1270µs/cm 13.32ms/cm	1413µs/cm 12.88ms/cm
DO (mg/L)	100% in air 0% in zero O ₂	Lot 4231 Lot 6275	5.58 in air —	9.11 in air 0 in zero O ₂
Temperature (°C)	Ref. Thermometer	N/A	24.50	24.50

Calibrated by: E. [Signature]

Calibration Date: 1.10.14

Next Calibration Due: November

New DO probe installed, cal performed post installation.

	Testing Certificate		Part code: <u>41769828-3</u>
	Tested Parameters:		Lot Nr.: <u>01398</u>
	pH ☐	ORP ☐	Inspector
	Conductivity ☐	RH% ☐	ID: <u>BC</u>
	Temperature ☐	D.O. ☒	
	Cosmetic ☒		
	Mechanics ☒		

Appendix I

Chain of Custody and Sample Receipt Forms



Sheet <u>1</u> of <u>5</u>					Sample Matrix										Analysis										SP	Comments
Site: <u>75 Mary St.</u> <u>St Peters, NSW</u>			Project No: <u>E22317</u>																							HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory: SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																										
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM ^A /TRH/BTEX/PAHs OCPI/OP/PCB/Asbestos	HM ^A /TRH/BTEX/PAHs	HM ^A /TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	sPOCAS	Phenols					TCLP PAHs	TCLP HM ^B	
			Date	Time																						
BH7-1	1	S + 2LB	23.9.14	Am/Pm		X		X						X					X							
-2																										
-3																										
BH8-1	2	+2LB						X						X					X							
-2																										
-3																										
BH9-1	3	+2LB						X						X					X							
-2																										
-3																										
BH10-1	4	+2LB						X						X					X							
-2																										
-3																										

RECEIVED
 25 SEP 2014
 SE13167

LABORATORY
 TURNAROUND
☒ Standard
☐ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other _____

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.	Sampler's Name (EI):		Received by (SGS):	
	Print <u>E. Short</u>		Print <u>Erin Adams</u>	
	Signature <u>[Signature]</u>		Signature <u>[Signature]</u>	
Sampler's Comments:	Date <u>25/9/14</u>		Date <u>25/9/14 12:30</u>	
Container Type: J= solvent washed, acid rinsed, Teflon sealed, glass jar G= solvent washed, acid rinsed glass bottle P= natural HDPE plastic bottle VC= glass vial, Teflon Septum ZLB= Zip-Lock Bag	IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au			

Environmental Investigations Australia
 Contamination | Remediation | Geotechnical
 Suite 6.01, 55 Miller Street
 PYRMONT NSW 2009
 Ph: 9516 0722
lab@eiaustralia.com.au

COC July 2014 FORM v2 - SGS

Site: **75 Mary St.**
Sf Peters, NSW

Project No:
E22317

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Faecal, etc.)	HM A / TRH/TEX/PAHs OC/OP/PCB/Asbestos	HM A / TRH/TEX/PAHs	HM A / TRH/TEX	TRH/STEX/Lead	TRH/TEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	SPOCAS	Phenols	TCPL PAHs	TCPL HM B
			Date	Time																	
BH11-1	5	+ZLB	23.9.14	Amperm		X		X						X					X		
-2																					
-3																					
-4																					
BH12-1	6	+ZLB						X						X					X		
-2																					
-3																					
-4																					
BH14-1	7	+ZLB						X						X					X		
-2	8								X					X					X		
-3																					
-4																					

LABORATORY TURNAROUND

☒ Standard

☐ 24 Hours

☐ 48 Hours

☐ 72 Hours

☐ Other _____

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Comments:

Container Type:
S= solvent washed, acid rinsed, Teflon sealed, glass jar
G= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB= Zip-Lock Bag

Sampler's Name (EI):

Received by (SGS):

Print **E. Short**
Signature **E. Short**
Date **25/9/14**

Print **Eric Adams**
Signature **Eric Adams**
Date **25/9/14 12.00**

IMPORTANT:

Please e-mail laboratory results to: lab@eiaustralia.com.au

Environmental Investigations Australia

Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street
PYRMONT NSW 2009

Ph: **9516 0722**
lab@eiaustralia.com.au

Sheet <u>3</u> of <u>5</u>					Sample Matrix										Analysis										Comments
Site: <u>75 Mary St.</u>			Project No: <u>E22317</u>																						HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zn/C
Laboratory: <u>SGS Australia</u> <u>Unit 16, 33 Maddox Street,</u> <u>ALEXANDRIA NSW 2015</u> <u>P: 02 8594 0400 F: 02 8594 0499</u>																									HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibre, Paint, etc.)	HM ^A / TRH/BTEX/PAHs OC/PCP/PCB/Asbestos	HM ^A / TRH/BTEX/PAHs	HM ^A / TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	sPOCAs	Phenols	TCLP PAHs	TCLP HM ^B				
			Date	Time																					
BH15-1	9	J	tLB	23.9.14	Am/pm		X		X					X					X						
-2	10							X						X					X						
-3																									
BH16-1	11		tLB					X						X					X						
-2	12							X						X					X						
-3																									
BH17-1	13		tLB					X						X					X						
-2	14							X						X					X						
-3																									
BH18-1	15		tLB					X						X					X						
-2																									
-3																									

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Comments:

Container Type:
J= solvent washed, acid rinsed, Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Sampler's Name (EI):

Print: E. Short
Signature: [Signature]
Date: 25/9/14

Received by (SGS):

Print: Erin Adams
Signature: [Signature]
Date: 25/9/14 12:30pm

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

Environmental Investigations Australia

Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Site: 75 Mary St.
St Peters, NSW

Project No:

E22317

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibre, Paint, etc.)	HM A /TRH/BTEX/PAHs GCP/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / DEC (cation exchange)	pH / EC (electrical conductivity)	SPOCAS	Phenols	TCLP PAHs	TCLP HM B
			Date	Time																	
BH19-1	16	J+ZLB	23.9.14	AM/PM		X		X						X					X		
BH19-2	17								X					X					X		
BH19-3																					
BH19-4																					
BH21-1	18	+ZLB						X						X					X		
-2	19								X					X					X		
-3																					
BH22-1	20	+ZLB						X						X					X		
-2																					
-3																					
BH23-1	21	+ZLB						X						X					X		
-2																					

HM A
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zn/C

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

LABORATORY
TURNAROUND

- ☒ Standard
☐ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Comments:

Container Type:

S= solvent washed, acid rinsed, Teflon sealed, glass jar?
G= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB= Zip-Lock Bag

Sampler's Name (EI):

Received by (SGS):

Print

E. Short

Print

Erin Adams

Signature

E. Short

Signature

Erin Adams

Date

Date

25/9/14 12:30

IMPORTANT:

Please e-mail laboratory results to: lab@eiaustralia.com.au

Environmental Investigations Australia

Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street
PYRMONT NSW 2009

Ph: 9516 0722

lab@eiaustralia.com.au

SE131674

Job:

1, 7, 9, 11, 13, 15, 16, 18, 20, 21
8, 10, 12, 14, 17, 19, 22

23

24

Matrix

250 JAR

125 JAR

BAG

1L UP P

500 UP P

250 ZnAcetate P

250 / 500 NaOH BP

125 / 250 UP P

125 / 250 Metal Total*

125 / 250 Metal Filtered*

125 HCl P

1L UP AG

500 / 1L H₂SO₄ AG

125 / 250 H₂SO₄ P

100 / 200 UP AG

40 NaThio GV

250 UP OPAQUE P

500 NaThio STERILE P

200 NaThio STERILE P

100ml x 1000 150 ml

Storage Location

Bottles Supplied By

Comment

Cooling Method

CP

Temp

4°C

Good Order

Y / N

Clearly Labelled

Y / N

Correct Pres.

Y / N

No Head-space

Y / N / NA

Sufficient Vol

Y / N

Doc Date

25/09

Doc Type

LOC

Complete Docs

Y / N

Requested TAT

Site

• "BH7-2" not received

28 soils on hold



SAMPLE RECEIPT ADVICE

SE131674

CLIENT DETAILS

Contact Earin Short
Client Environmental Investigations
Address Suite 6.01, 55 Miller Street
NSW 2009

Telephone 02 9516 0722
Facsimile 02 9516 0741
Email earin.short@eiaustralia.com.au

Project **E22317 - 75 Mary St, St Peters NSW**
Order Number **E22317**
Samples 24

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Thu 25/9/2014
Report Due Thu 2/10/2014
SGS Reference **SE131674**

SUBMISSION DETAILS

This is to confirm that 24 samples were received on Thursday 25/9/2014. Results are expected to be ready by Thursday 2/10/2014. Please quote SGS reference SE131674 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	23 Soils, 1 Water	Type of documentation received	COC
Date documentation received	25/9/2014	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4.0°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

Sample "BH7-2" was not received at SGS.
27 soil samples, which were not marked for analyses on the COC, have been placed on hold. These samples will not be processed.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx> as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary St, St Peters NSW

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Phenolics in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH7-1	28	13	25	11	1	10	79	8
002	BH8-1	28	13	25	11	1	10	79	8
003	BH9-1	28	13	25	11	1	10	79	8
004	BH10-1	28	13	25	11	1	10	79	8
005	BH11-1	28	13	25	11	1	10	79	8
006	BH12-1	28	13	25	11	1	10	79	8
007	BH14-1	28	13	25	11	1	10	79	8
008	BH14-2	-	-	25	-	1	10	79	8
009	BH15-1	28	13	25	11	1	10	79	8
010	BH15-2	-	-	25	-	1	10	79	8
011	BH16-1	28	13	25	11	1	10	79	8
012	BH16-2	-	-	25	-	1	10	79	8
013	BH17-1	28	13	25	11	1	10	79	8
014	BH17-2	-	-	25	-	1	10	79	8
015	BH18-1	28	13	25	11	1	10	79	8
016	BH19-1	28	13	25	11	1	10	79	8
017	BH19-2	-	-	25	-	1	10	79	8
018	BH214-1	28	13	25	11	1	10	79	8
019	BH21-2	-	-	25	-	1	10	79	8
020	BH22-1	28	13	25	11	1	10	79	8
021	BH23-1	28	13	25	11	1	10	79	8
022	B1	-	-	-	-	-	10	12	8
023	TB	-	-	-	-	-	-	12	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary St, St Peters NSW

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Metals in Soil by ICPOES from	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH7-1	2	1	1	7	-	-	-
002	BH8-1	2	1	1	7	-	-	-
003	BH9-1	2	1	1	7	-	-	-
004	BH10-1	2	1	1	7	-	-	-
005	BH11-1	2	1	1	7	-	-	-
006	BH12-1	2	1	1	7	-	-	-
007	BH14-1	2	1	1	7	-	-	-
008	BH14-2	-	1	1	7	-	-	-
009	BH15-1	2	1	1	7	-	-	-
010	BH15-2	-	1	1	7	-	-	-
011	BH16-1	2	1	1	7	-	-	-
012	BH16-2	-	1	1	7	-	-	-
013	BH17-1	2	1	1	7	-	-	-
014	BH17-2	-	1	1	7	-	-	-
015	BH18-1	2	1	1	7	-	-	-
016	BH19-1	2	1	1	7	-	-	-
017	BH19-2	-	1	1	7	-	-	-
018	BH214-1	2	1	1	7	-	-	-
019	BH21-2	-	1	1	7	-	-	-
020	BH22-1	2	1	1	7	-	-	-
021	BH23-1	2	1	1	7	-	-	-
022	B1	-	1	1	7	-	-	-
023	TB	-	-	1	-	-	-	-
024	RB	-	-	-	-	9	12	8

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .



SAMPLE RECEIPT ADVICE

SE131674

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary St, St Peters NSW

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS
024	RB	1	7

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

Sheet <u>1</u> of <u>3</u>					Sample Matrix										Analysis										Comments	
Site: <u>75 Mary St.</u> <u>St. Peters NSW</u>				Project No: <u>E22317</u>																						HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zn/C
Laboratory: SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																										
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM ^A /TRH/BTEX/PAHs OCF/OP/PCB/Asbestos	HM ^A /TRH/BTEX/PAHs	HM ^A /TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	sPOCAs	Phenols	TCLP PAHs	TCLP HM ^B	HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel				
			Date	Time																						
BH1-1	1	J +ZLB	24.9.14	Am/pm		X		X						X					X							
-2	2								X					X					X							
-3																										
BH2-1	3	+ZLB	23.9.14					X						X					X							
-2	4								X					X					X							
-3																										
-4	5								X					X					X							
BH3-1	6	+ZLB	25.9.14					X						X					X							
-2	7								X					X					X							
-3																										
-4																										
BH4-1	8	✓ +ZLB	24.9.14	✓		✓		X						X					X							

RECEIVED
 29 SEP 2014
 SC131743

LABORATORY TURNAROUND
☒ Standard
☐ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other _____

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.	Sampler's Name (EI):		Received by (SGS):	
	Print <u>E. Shank</u>		Print <u>Erin Adams</u>	
	Signature <u>E. Shank</u>		Signature <u>Erin Adams</u>	
Sampler's Comments:	Date <u>29.9.14</u>		Date <u>29/9/14 12:30</u>	
	IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au			

Environmental Investigations Australia

Contamination | Remediation | Geotechnical

Suite 6.01, 55 Miller Street
PYRMONT NSW 2009

Ph: 9516 0722

lab@eiaustralia.com.au

COC July 2014 FORM v.2 - SGS

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 G= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Sheet 2 of 3

Sample Matrix

Analysis

Comments

 Site: **75 Mary St.**
St. Peters NSW

Project No:

E22317
 Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibre, Paint, etc.)	HM A / TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM A / TRH/BTEX/PAHs	HM A / TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	sFOCAS	Phenols	TCLP PAHs	TCLP HM B
			Date	Time																	
BH4-2	9	J	24.9.14	11/11pm		X			X					X					X		
-3																					
-4																					
-5																					
BH5-1	10	+ZLB	23.9.14					X						X					X		
-2	11	+ZLB						X						X					X		
-3																					
-4	12								X					X					X		
-5																					
BH6-1	13	+ZLB	25.9.14					X						X					X		
-2																					
-3	14								X					X					X		

 HM B
 Arsenic
 Cadmium
 Chromium
 Lead
 Mercury
 Nickel
 ZnC
LABORATORY
TURNAROUND☒ Standard☐ 24 Hours☐ 48 Hours☐ 72 Hours☐ Other _____Investigator: I attest that these samples were collected in accordance
with standard EI field sampling procedures.

Sampler's Comments:

Sampler's Name (EI):

Received by (SGS):

Print

E. Short

Print

Erin Adams

Signature

E. Short

Signature

Erin Adams

Date

29.9.14

Date

29/9/14 12:30

Container Type:

J= solvent washed, acid rinsed, Teflon sealed, glass jar

G= solvent washed, acid rinsed glass bottle

P= natural HDPE plastic bottle

VC= glass vial, Teflon Septum

ZLB = Zip-Lock Bag

IMPORTANT:

Please e-mail laboratory results to: lab@eiaustralia.com.au
**Environmental
Investigations**
Australia
 Contamination | Remediation | Geotechnical
 Suite 6.01, 55 Miller Street

PYRMONT NSW 2009

Ph: **9516 0722**lab@eiaustralia.com.au

☒ Standard
☐ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other _____

COC July 2014 FORM v.2 - S9S

SGS

SC131743

Job:

1,3,6,8,10,11,13,15

2,4,5,7,9,12,14

16

Matrix	250 JAR	125 JAR	BAG	1L UP P	500 UP P	250 ZnAcetate P	250 / 500 NaOH BP	125 / 250 UP P	125 / 250 Metal Total*	125 / 250 Metal Filtered*	125 HCl P	1L UP AG	500 / 1L H ₂ SO ₄ AG	125 / 250 H ₂ SO ₄ P	100 / 200 UP AG	40 NaThio GV	250 UP OPAQUE P	500 NaThio STERILE P	200 NaThio STERILE P	Storage Location	Bottles Supplied By	Comment	Cooling Method
S	1		1																	S8078 ASB	SGS	Full	CP
S	1																			S8078	"	"	90C
S															1					"	"	"	Good Order
																							Y / N
																							Clearly Labelled
																							Y / N
																							Correct Pres.
																							Y / N
																							No Head-space
																							Y / N / NA
																							Sufficient Vol
																							Y / N
																							Doc Date
																							29109
																							Doc Type
																							60C
																							Complete Docs
																							Y / N
																							Requested TAT
																							Sta

B soil on hold



SAMPLE RECEIPT ADVICE

SE131743

CLIENT DETAILS

Contact Earin Short
Client Environmental Investigations
Address Suite 6.01, 55 Miller Street
NSW 2009

Telephone 02 9516 0722
Facsimile 02 9516 0741
Email earin.short@eiaustralia.com.au

Project **E22317 - 75 Mary St, St Peters NSW**
Order Number **E22317**
Samples 16

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Mon 29/9/2014
Report Due Tue 7/10/2014
SGS Reference **SE131743**

SUBMISSION DETAILS

This is to confirm that 16 samples were received on Monday 29/9/2014. Results are expected to be ready by Tuesday 7/10/2014. Please quote SGS reference SE131743 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	16 Soils	Type of documentation received	COC
Date documentation received	29/9/2014	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4.0°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

13 soil samples, which were not marked for analyses on the COC, have been placed on hold. These samples will not be processed.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx> as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary St, St Peters NSW

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Phenolics in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1-1	28	13	25	11	1	10	79	8
002	BH1-2	-	-	25	-	1	10	79	8
003	BH2-1	28	13	25	11	1	10	79	8
004	BH2-2	-	-	25	-	1	10	79	8
005	BH2-4	-	-	25	-	1	10	79	8
006	BH3-1	28	13	25	11	1	10	79	8
007	BH3-2	-	-	25	-	1	10	79	8
008	BH4-1	28	13	25	11	1	10	79	8
009	BH4-2	-	-	25	-	1	10	79	8
010	BH5-1	28	13	25	11	1	10	79	8
011	BH5-2	28	13	25	11	1	10	79	8
012	BH5-4	-	-	25	-	1	10	79	8
013	BH6-1	28	13	25	11	1	10	79	8
014	BH6-3	-	-	25	-	1	10	79	8
015	BH20-1	28	13	25	11	1	10	79	8
016	TS	-	-	-	-	-	-	12	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .



SAMPLE RECEIPT ADVICE

SE131743

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary St, St Peters NSW

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Metals in Soil by ICPOES from
001	BH1-1	2	1	1	7
002	BH1-2	-	1	1	7
003	BH2-1	2	1	1	7
004	BH2-2	-	1	1	7
005	BH2-4	-	1	1	7
006	BH3-1	2	1	1	7
007	BH3-2	-	1	1	7
008	BH4-1	2	1	1	7
009	BH4-2	-	1	1	7
010	BH5-1	2	1	1	7
011	BH5-2	2	1	1	7
012	BH5-4	-	1	1	7
013	BH6-1	2	1	1	7
014	BH6-3	-	1	1	7
015	BH20-1	2	1	1	7

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

TCL PHM B

HM ^B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Security: Intact/Broken/None☐ Other _____

COC July 2014 FORM v.2 - EnviroLab



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:

Environmental Investigations
Suite 6.01, 55 Miller Street
Pymont NSW 2009

ph: 9516 0722
Fax: 9518 5088

Attention: E Short

Sample log in details:

Your reference:	E22317, St Peters
Envirolab Reference:	116738
Date received:	25/09/14
Date results expected to be reported:	2/10/14

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 Soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	20.1
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

If there is sufficient sample after testing, samples will be held for the following time frames from date of receipt of samples:
Water samples - 1 month
Soil and other solid samples - 2 months
Samples collected in canisters - 1 week. Canisters will then be cleaned.
All other samples are not retained after analysis
If you require samples to be retained for longer periods then retention fees will apply as per our pricelist.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Sheet <u>1</u> of <u>1</u>		Sample Matrix		Analysis														Comments				
Site: <u>75 Mary St.</u> <u>St. Peters, NSW</u>		Project No: <u>E22317</u>																HM ^Δ Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc				
Laboratory: <u>SGS Australia</u> <u>Unit 16, 33 Maddox Street,</u> <u>ALEXANDRIA NSW 2015</u> <u>P: 02 8594 0400 F: 02 8594 0499</u>																						
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM ^Δ / TRH/BTEX/PAHs OC/PCP/PCB/Asbestos	HM ^Δ / TRH/BTEX/PAHs	HM ^Δ / TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	sPOCAS	<u>HOLD</u>	TCLP PAHs	TCLP HM ^Δ	
			Date	Time																		
ASS1-1	1	ZLB	23.9.14	Am/pm		X												X				
-2	2																	X				
-3																						
ASS5-1	3																	X				
-2	4																	X				
-3																						
ASS1-1	5		24.9.14															X				
-2	6																	X				
ASS4-1	7																	X				
-2	8																	X				
-3																						
ASS3-1	9		25.9.14															X				
-2	10																	X				

RECEIVED
 26 SEP 2014
 SERB1695

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.	Sampler's Name (EI):		Received by (SGS):	
	Print <u>E. Short</u> Signature <u>E. Short</u> Date <u>23.9.14</u>		Print <u>Erin Adams</u> Signature <u>Erin Adams</u> Date <u>25/9/14 3p</u>	
Container Type: J= solvent washed, acid rinsed, Teflon sealed, glass jar B= solvent washed, acid rinsed glass bottle P= natural HDPE plastic bottle VC= glass vial, Teflon Septum ZLB= Zip-Lock Bag	IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au			

Environmental Investigations Australia
 Contamination | Remediation | Geotechnical
 Suite 6.01, 55 Miller Street
 PYRMONT NSW 2009
 Ph: 9516 0722
lab@eiaustralia.com.au

AU.SampleReceipt.Sydney (Sydney)

From: Earin W Short - Environmental Investigations [Earin.Short@eiaustralia.com.au]
Sent: Thursday, 25 September 2014 4:43 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: E22317, St Peters - ASS testing COC
Attachments: ASS COC.pdf

Hello SR team,

Please see the attached COC for samples submitted 23-25 September for the above project.

Thanks

Earin W Short | Environmental Scientist

Environmental Investigations Australia Pty Ltd

Suite 6.01, 55 Miller Street, Pyrmont NSW 2009

T 02 9516 0722 | M 0410 530 445

W www.eiaustralia.com.au | E earin.short@eiaustralia.com.au



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SGS

SEB1695

Job:

H-10

S

1

3 soils on hold

Matrix

250 JAR

125 JAR

BAG

1L UP P

500 UP P

250 ZnAcetate P

250 / 500 NaOH BP

125 / 250 UP P

125 / 250 Metal Total*

125 / 250 Metal Filtered*

125 HCl P

1L UP AG

500 / 1L H₂SO₄ AG

125 / 250 H₂SO₄ P

100 / 200 UP AG

40 NaThio GV

250 UP OPAQUE P

500 NaThio STERILE P

200 NaThio STERILE P

Storage Location

Bottles Supplied By

Comment

Cooling Method

sample receipt fridge

Client

100% fresh

Temp 2.8°C

Good Order

Y / N

Clearly Labelled

Y / N

Correct Pres.

Y / N

No Head-space

Y / N / NA

Sufficient Vol

Y / N

Doc Date

Doc Type

Complete Docs

Y / N

Requested TAT



SAMPLE RECEIPT ADVICE

SE131695

CLIENT DETAILS

Contact Earin Short
Client Environmental Investigations
Address Suite 6.01, 55 Miller Street
NSW 2009

Telephone 02 9516 0722
Facsimile 02 9516 0741
Email earin.short@eiaustralia.com.au

Project **E22317-75 Mary Street, St. Peters, NSW**
Order Number **E22317**
Samples 10

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Thu 25/9/2014
Report Due Fri 3/10/2014
SGS Reference **SE131695**

SUBMISSION DETAILS

This is to confirm that 10 samples were received on Thursday 25/9/2014. Results are expected to be ready by Friday 3/10/2014. Please quote SGS reference SE131695 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	10 Soils	Type of documentation received	COC
Date documentation received	25/9/14@4:43pm	Samples received in good order	Yes
Samples received without headspace	N/A	Sample temperature upon receipt	2.8°C
Sample container provider	Client	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

SPOCAS subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx> as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.



SAMPLE RECEIPT ADVICE

SE131695

CLIENT DETAILS

Client Environmental Investigations

Project E22317-75 Mary Street, St. Peters, NSW

SUMMARY OF ANALYSIS

No.	Sample ID	HCl Extractable S, Ca and Mg in Soil ICP OES	SPOCAS Net Acidity Calculations	TAA (Titratable Actual Acidity)	TPA (Titratable Peroxide Acidity)
001	ASS2-1	3	6	7	21
002	ASS2-2	3	6	7	21
003	ASS5-1	3	6	7	21
004	ASS5-2	3	6	7	21
005	ASS1-1	3	6	7	21
006	ASS1-2	3	6	7	21
007	ASS4-1	3	6	7	21
008	ASS4-2	3	6	7	21
009	ASS3-1	3	6	7	21
010	ASS3-2	3	6	7	21

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis														Comments	
Site: <u>75 Mary Street St Peters</u>			Project No: <u>622317</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A / TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM A / TRH/BTEX/PAHs	HM A / TRH/BTEX	TRH/BTEX/Lead	TRH/BTEX	PAHs	VOCs	Asbestos	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	SPOCAS	TOTAL PHENOLS	TCLP PAHs	TCLP HM B	
Laboratory:	SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499	Laboratory ID	Container Type	Sampling Date																		Time
MW1-1	1	5x2 VCX2 PKI	8-10-14	AM/PM	X			X					X						X			
MW2-1	2	↓			X			X					X						X			
MW3-1	3	5x3 VCX2 PKI			X			X					X						X			
MW4-1	4	5x2 VCX2 PKI			X			X					X						X			
MW5-1	5	↓			X			X					X						X			
B1	6	↓			X				X													
RB-1	7	5x1 VCX2 PKI			X			X														
TB-1	8	VCX1 PKI			X						X											

HM A
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

LABORATORY TURNAROUND

- ☒ Standard
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ 72 Hours
- ☐ Other _____

RECEIVED
08 OCT 2014
S E13199A

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI):

CARMEN YI

Print CARMEN YI

Signature

Date 08/10/14

Received by (SGS):

Print Erin Adams

Signature

Date 8/10/14 4:40

Sampler's Comments:

* Could sample be acidified prior to analysis

Container Type:

J= solvent washed, acid rinsed, Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB= Zip-Lock Bag

IMPORTANT:

Please e-mail laboratory results to: lab@eiaustralia.com.au

Environmental Investigations Australia

Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street
PYRMONT NSW 2009
Ph: 9516 0722

lab@eiaustralia.com.au

SE131994

$$\begin{array}{r} 12 \\ 1 \\ \hline 3 \\ \hline 4,5 \\ \hline 6,7 \\ \hline 8 \end{array}$$
[illegible]



SAMPLE RECEIPT ADVICE

SE131994

CLIENT DETAILS

Contact Carmen Yi
Client Environmental Investigations
Address Suite 6.01, 55 Miller Street
NSW 2009

Telephone 02 9516 0722
Facsimile 02 9516 0741
Email carmen.yi@eiaustralia.com.au

Project **E22317 - 75 Mary Street St Peters**
Order Number (Not specified)
Samples 8

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Wed 8/10/2014
Report Due Thu 16/10/2014
SGS Reference **SE131994**

SUBMISSION DETAILS

This is to confirm that 8 samples were received on Wednesday 8/10/2014. Results are expected to be ready by Thursday 16/10/2014. Please quote SGS reference SE131994 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	8 Waters	Type of documentation received	COC
Date documentation received	8/10/2014	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

Samples received at SGS on 8/10/14@4:40pm. Samples were not registered until the next working day.
For TB-1, only TRH(C6-C9)/BTEX analysed. Vial only received.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx> as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.



SAMPLE RECEIPT ADVICE

SE131994

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary Street St Peters

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Total Phenolics in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	MW1-1	1	22	1	7	9	79	8
002	MW2-1	1	22	1	7	9	79	8
003	MW3-1	1	22	1	7	9	79	8
004	MW4-1	1	22	1	7	9	79	8
005	MW5-1	1	22	1	7	9	79	8
006	B1	1	-	-	7	9	12	8
007	RB-1	1	-	-	7	9	12	8
008	TB-1	-	-	-	-	-	12	8

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

AU.SampleReceipt.Sydney (Sydney)

From: Nathan Foster - Environmental Investigations [nathan.foster@eiaustralia.com.au]
Sent: Friday, 10 October 2014 10:20 AM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: Additional Laboratory Analysis - Lab Ref: SE131994

Could I please get additional analysis performed on the following sampling from **SGS Ref: SE131994:**

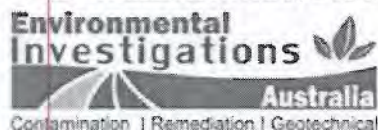
3 MW3-1 – pH, Electrical Conductivity, Sulfates, Chlorides

1 2 3 4 5
MW1-1, MW2-1, MW3-1, MW4-1, MW5-1 – Ammonia

Could these samples be analysed at standard TAT.

Regards.

Nathan Foster | Senior Environmental Scientist / Project Manager
Environmental Investigations Australia Pty Ltd
Suite 6.01, 55 Miller Street, Pyrmont NSW 2009
T 02 9516 0722 | F 02 9518 5088
W www.eiaustralia.com.au | E nathan.foster@eiaustralia.com.au



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SGS Ref: SE131994A
Date Rec'd 17/10/14
TAT: STANDARD



SAMPLE RECEIPT ADVICE

SE131994A

CLIENT DETAILS

Contact **Nathan Foster**
Client **Environmental Investigations**
Address **Suite 6.01, 55 Miller Street
NSW 2009**

Telephone **02 9516 0722**
Facsimile **02 9516 0741**
Email **Nathan.Foster@eiaustralia.com.au**

Project **E22317 - 75 Mary Street St Peters - Add**
Order Number **E22317**
Samples **8**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

Samples Received **Wed 8/10/2014**
Report Due **Fri 17/10/2014**
SGS Reference **SE131994A**

SUBMISSION DETAILS

This is to confirm that 8 samples were received on Wednesday 8/10/2014. Results are expected to be ready by Friday 17/10/2014. Please quote SGS reference SE131994A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	5 Water	Type of documentation received	Email
Date documentation received	10/10/14@10:20am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions/General-Conditions-of-Services-English.aspx> as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.



SAMPLE RECEIPT ADVICE

SE131994A

CLIENT DETAILS

Client Environmental Investigations

Project E22317 - 75 Mary Street St Peters - Add

SUMMARY OF ANALYSIS

No.	Sample ID	Ammonia Nitrogen by Discrete Analyser	Anions by Ion Chromatography in Water	Conductivity and TDS by Calculation - Water	pH in water
001	MW1-1	1	-	-	-
002	MW2-1	1	-	-	-
003	MW3-1	1	2	1	1
004	MW4-1	1	-	-	-
005	MW5-1	1	-	-	-

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

[illegible]



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:

Environmental Investigations
Suite 6.01, 55 Miller Street
Pymont NSW 2009

ph: 9516 0722
Fax: 9518 5088

Attention: Carmen Yi

Sample log in details:

Your reference:	E22317, St Peters
Envirolab Reference:	117374
Date received:	09/10/14
Date results expected to be reported:	16/10/14

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 Water
Turnaround time requested:	Standard
Temperature on receipt (°C)	12.4
Cooling Method:	Ice
Sampling Date Provided:	YES

Comments:

If there is sufficient sample after testing, samples will be held for the following time frames from date of receipt of samples:
Water samples - 1 month
Soil and other solid samples - 2 months
Samples collected in canisters - 1 week. Canisters will then be cleaned.
All other samples are not retained after analysis
If you require samples to be retained for longer periods then retention fees will apply as per our pricelist.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Appendix J

Laboratory Analytical Reports



CLIENT DETAILS

Contact Earin Short
Client Environmental Investigations
Address Suite 6.01, 55 Miller Street
NSW 2009

Telephone 02 9516 0722
Facsimile 02 9516 0741
Email Earin.Short@eiaustralia.com.au

Project **E22317 - 75 Mary St, St Peters NSW**
Order Number **E22317**
Samples 24
Date Started 29 Sep 2014

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE131674 R1**
Report Number 0000093125
Date Reported 15 Oct 2014
Date Received 25 Sep 2014

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No. SE131674 R0 issued by SGS Environmental Services due to amendment to Client Sample Name for sample #18.

PAH/OP/VOC/VP - The Limit of Reporting (LOR) has been raised due to interferences from the sample matrix.

No respirable fibres detected in all samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



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ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH7-1	BH8-1	BH9-1	BH10-1
Parameter	Units	LOR			

VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1
Iodomethane	mg/kg	5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.001 Soil 23 Sep 2014 BH7-1	SE131674.002 Soil 23 Sep 2014 BH8-1	SE131674.003 Soil 23 Sep 2014 BH9-1	SE131674.004 Soil 23 Sep 2014 BH10-1
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH7-1	BH8-1	BH9-1	BH10-1
Units	LOR					

VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	84	104	90	80
d4-1,2-dichloroethane (Surrogate)	%	-	99	129	111	100
d8-toluene (Surrogate)	%	-	75	107	91	78
Bromofluorobenzene (Surrogate)	%	-	83	110	94	78

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C9	mg/kg	20	<20	<20	<20	<20

Surrogates

Dibromofluoromethane (Surrogate)	%	-	92	114	99	87
d4-1,2-dichloroethane (Surrogate)	%	-	98	113	98	87
d8-toluene (Surrogate)	%	-	82	117	99	85
Bromofluorobenzene (Surrogate)	%	-	74	102	84	70



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH7-1	BH8-1	BH9-1	BH10-1
Units	LOR					

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	190	<45	<45	<45
TRH C29-C36	mg/kg	45	200	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH C10-C36 Total	mg/kg	110	390	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	390	<210	<210	<210

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	370	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	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	0.3	<0.1	<0.1	0.4
Anthracene	mg/kg	0.1	0.2	<0.1	<0.1	0.1
Fluoranthene	mg/kg	0.1	1.7	<0.1	<0.1	0.6
Pyrene	mg/kg	0.1	3.9	<0.1	<0.1	0.8
Benzo(a)anthracene	mg/kg	0.1	3.0	<0.1	<0.1	0.5
Chrysene	mg/kg	0.1	2.2	<0.1	<0.1	0.4
Benzo(b&j)fluoranthene	mg/kg	0.1	6.3	<0.1	<0.1	0.4
Benzo(k)fluoranthene	mg/kg	0.1	2.1	<0.1	<0.1	0.1
Benzo(a)pyrene	mg/kg	0.1	4.9	<0.1	<0.1	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	2.2	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	0.3	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	1.9	<0.1	<0.1	<0.1
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	6.6	<0.2	<0.2	0.3
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	6.6	<0.3	<0.3	0.4
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	6.6	<0.2	<0.2	0.4
Total PAH	mg/kg	0.8	29	<0.8	<0.8	3.9



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH7-1	BH8-1	BH9-1	BH10-1
Units	LOR					

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	92	92	98	96
2-fluorobiphenyl (Surrogate)	%	-	90	92	96	94
d14-p-terphenyl (Surrogate)	%	-	112	108	108	106

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (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
Lindane	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
Aldrin	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
Delta BHC	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
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH7-1	BH8-1	BH9-1	BH10-1
Parameter	Units	LOR			

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	100	103	109	102
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	90	92	96	94
d14-p-terphenyl (Surrogate)	%	-	112	108	108	106

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH7-1	BH8-1	BH9-1	BH10-1
Units	LOR					

PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	100	103	109	102
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	0.2	0.9	0.1	0.1
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	8	8	8	5
Cadmium, Cd	mg/kg	0.3	0.5	0.3	1.1	0.4
Chromium, Cr	mg/kg	0.3	18	16	23	17
Copper, Cu	mg/kg	0.5	20	5.8	3.3	11
Lead, Pb	mg/kg	1	150	37	69	65
Nickel, Ni	mg/kg	0.5	8.5	2.4	2.9	2.6
Zinc, Zn	mg/kg	0.5	210	24	470	190

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.11	0.04	0.02	0.13
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	No	No	No	No
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SemiQuant

Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01
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Moisture Content Method: AN002

% Moisture	%	0.5	17	17	23	17
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH7-1	BH8-1	BH9-1	BH10-1
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes	µg/L	1.5	-	-	-	-
Total BTEX	µg/L	3	-	-	-	-

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	-
TRH C6-C9	µg/L	40	-	-	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-
TRH C37-C40	µg/L	200	-	-	-	-
TRH C10-C36	µg/L	450	-	-	-	-
TRH C10-C40	µg/L	650	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.001	SE131674.002	SE131674.003	SE131674.004
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH7-1	BH8-1	BH9-1	BH10-1
Units	LOR					

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-	-	-

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	5	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-
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ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.005 Soil 23 Sep 2014 BH11-1	SE131674.006 Soil 23 Sep 2014 BH12-1	SE131674.007 Soil 23 Sep 2014 BH14-1	SE131674.008 Soil 23 Sep 2014 BH14-2
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VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1
Iodomethane	mg/kg	5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.005 Soil 23 Sep 2014 BH11-1	SE131674.006 Soil 23 Sep 2014 BH12-1	SE131674.007 Soil 23 Sep 2014 BH14-1	SE131674.008 Soil 23 Sep 2014 BH14-2
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.005	SE131674.006	SE131674.007	SE131674.008
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH11-1	BH12-1	BH14-1	BH14-2
Units	LOR					

VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	78	86	84	76
d4-1,2-dichloroethane (Surrogate)	%	-	100	110	107	95
d8-toluene (Surrogate)	%	-	76	84	85	80
Bromofluorobenzene (Surrogate)	%	-	83	85	87	81

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C9	mg/kg	20	<20	<20	<20	<20

Surrogates

Dibromofluoromethane (Surrogate)	%	-	86	95	93	84
d4-1,2-dichloroethane (Surrogate)	%	-	87	96	94	83
d8-toluene (Surrogate)	%	-	83	91	91	83
Bromofluorobenzene (Surrogate)	%	-	72	75	83	72



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.005	SE131674.006	SE131674.007	SE131674.008
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH11-1	BH12-1	BH14-1	BH14-2
Units	LOR					

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	100	<20
TRH C15-C28	mg/kg	45	<45	<45	960	<45
TRH C29-C36	mg/kg	45	<45	<45	470	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH C10-C36 Total	mg/kg	110	<110	<110	1500	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	1500	<210

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	<25	<25	150	<25
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	<25	<25	150	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	1200	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	160	<120

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	<0.1	0.3	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1
1-methylnaphthalene	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	1.2	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	0.5	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	2.7	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	2.6	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	1.6	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	1.3	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	2.4	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.7	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	1.7	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	1.5	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	1.4	<0.1
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	<0.2	<0.2	2.5	<0.2
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	2.5	<0.3
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	2.5	<0.2
Total PAH	mg/kg	0.8	<0.8	<0.8	19	<0.8



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.005	SE131674.006	SE131674.007	SE131674.008
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH11-1	BH12-1	BH14-1	BH14-2
Units	LOR					

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	94	84	92	96
2-fluorobiphenyl (Surrogate)	%	-	92	86	92	88
d14-p-terphenyl (Surrogate)	%	-	106	104	96	110

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	-
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	-
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	-
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	-
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	-
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	-
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	-
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	-
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	-
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	-
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	-
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	-
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	-
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	-
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	-
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.005 Soil 23 Sep 2014 BH11-1	SE131674.006 Soil 23 Sep 2014 BH12-1	SE131674.007 Soil 23 Sep 2014 BH14-1	SE131674.008 Soil 23 Sep 2014 BH14-2
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OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	103	99	95	-
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	-
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	-
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	-
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	-
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	-
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	-
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	-
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	-
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	-
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	-

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	92	86	92	-
d14-p-terphenyl (Surrogate)	%	-	106	104	96	-

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	-
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	-
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.005 Soil 23 Sep 2014 BH11-1	SE131674.006 Soil 23 Sep 2014 BH12-1	SE131674.007 Soil 23 Sep 2014 BH14-1	SE131674.008 Soil 23 Sep 2014 BH14-2
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PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	103	99	95	-
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	0.1	0.1	0.4	0.2
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	19	7	17	9
Cadmium, Cd	mg/kg	0.3	<0.3	0.6	5.6	0.4
Chromium, Cr	mg/kg	0.3	10	20	71	19
Copper, Cu	mg/kg	0.5	18	12	260	14
Lead, Pb	mg/kg	1	72	27	2400	90
Nickel, Ni	mg/kg	0.5	11	2.5	27	2.5
Zinc, Zn	mg/kg	0.5	47	260	2500	74

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.11	0.04	0.86	0.09
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	No	No	No	-
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SemiQuant

Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	-
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Moisture Content Method: AN002

% Moisture	%	0.5	27	16	19	27
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.005	SE131674.006	SE131674.007	SE131674.008
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH11-1	BH12-1	BH14-1	BH14-2
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes	µg/L	1.5	-	-	-	-
Total BTEX	µg/L	3	-	-	-	-

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	-
TRH C6-C9	µg/L	40	-	-	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-
TRH C37-C40	µg/L	200	-	-	-	-
TRH C10-C36	µg/L	450	-	-	-	-
TRH C10-C40	µg/L	650	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.005	SE131674.006	SE131674.007	SE131674.008
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH11-1	BH12-1	BH14-1	BH14-2
Units	LOR					

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-	-	-

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	5	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-
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ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.009 Soil 23 Sep 2014 BH15-1	SE131674.010 Soil 23 Sep 2014 BH15-2	SE131674.011 Soil 23 Sep 2014 BH16-1	SE131674.012 Soil 23 Sep 2014 BH16-2
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VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1
Iodomethane	mg/kg	5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.009 Soil 23 Sep 2014 BH15-1	SE131674.010 Soil 23 Sep 2014 BH15-2	SE131674.011 Soil 23 Sep 2014 BH16-1	SE131674.012 Soil 23 Sep 2014 BH16-2
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	0.3	<0.1	0.4	0.9
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.4 †	<0.5 †
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	0.4	0.5

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.009 Soil 23 Sep 2014 BH15-1	SE131674.010 Soil 23 Sep 2014 BH15-2	SE131674.011 Soil 23 Sep 2014 BH16-1	SE131674.012 Soil 23 Sep 2014 BH16-2
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VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	<0.1	<0.1	0.3	<0.2†
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	82	81	98	73
d4-1,2-dichloroethane (Surrogate)	%	-	104	104	119	91
d8-toluene (Surrogate)	%	-	84	78	98	78
Bromofluorobenzene (Surrogate)	%	-	92	82	101	114

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	34	71
TRH C6-C9	mg/kg	20	<20	<20	<20	<20

Surrogates

Dibromofluoromethane (Surrogate)	%	-	90	89	106	79
d4-1,2-dichloroethane (Surrogate)	%	-	91	91	105	80
d8-toluene (Surrogate)	%	-	91	88	123	98
Bromofluorobenzene (Surrogate)	%	-	81	76	104	103



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.009	SE131674.010	SE131674.011	SE131674.012
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH15-1	BH15-2	BH16-1	BH16-2
Units	LOR					

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	34	71

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	260	370
TRH C15-C28	mg/kg	45	<45	<45	2300	130
TRH C29-C36	mg/kg	45	<45	<45	1700	<45
TRH C37-C40	mg/kg	100	<100	<100	270	<100
TRH C10-C36 Total	mg/kg	110	<110	<110	4300	500
TRH C10-C40 Total	mg/kg	210	<210	<210	4600	500

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	<25	<25	320	420
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	<25	<25	320	420
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	3500	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	670	<120

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	<0.1	0.7	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	1.7	<0.2 †
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	2.3	0.3
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	0.4	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	5.2	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	4.2	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	43	0.2
Anthracene	mg/kg	0.1	<0.1	<0.1	17	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	100	0.6
Pyrene	mg/kg	0.1	<0.1	<0.1	100	0.6
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	52	0.3
Chrysene	mg/kg	0.1	<0.1	<0.1	38	0.2
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	55	0.4
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	15	0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	45	0.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	29	0.2
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	3.2	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	26	0.2
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	<0.2	<0.2	64	0.4
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	64	0.5
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	64	0.4
Total PAH	mg/kg	0.8	<0.8	<0.8	540	3.8



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.009	SE131674.010	SE131674.011	SE131674.012
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH15-1	BH15-2	BH16-1	BH16-2
Units	LOR					

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	90	88	88	110
2-fluorobiphenyl (Surrogate)	%	-	84	84	94	92
d14-p-terphenyl (Surrogate)	%	-	106	110	112	106

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	-
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	-
Lindane	mg/kg	0.1	<0.1	-	<0.1	-
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	-
Aldrin	mg/kg	0.1	<0.1	-	<0.1	-
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	-
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	-
Heptachlor epoxide	mg/kg	0.1	<0.1	-	<0.1	-
o,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	-
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	-
trans-Nonachlor	mg/kg	0.1	<0.1	-	<0.1	-
p,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	-
Endrin	mg/kg	0.2	<0.2	-	<0.2	-
o,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-
Beta Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-
p,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	-
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	-
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	-
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	-
Isodrin	mg/kg	0.1	<0.1	-	<0.1	-
Mirex	mg/kg	0.1	<0.1	-	<0.1	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.009	SE131674.010	SE131674.011	SE131674.012
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH15-1	BH15-2	BH16-1	BH16-2
Parameter	Units	LOR			

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98	-	83	-
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	<0.5	-	<0.5	-
Dimethoate	mg/kg	0.5	<0.5	-	<0.5	-
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	-	<0.5	-
Fenitrothion	mg/kg	0.2	<0.2	-	<0.2	-
Malathion	mg/kg	0.2	<0.2	-	<0.2	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	-	<0.2	-
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	<0.2	-
Bromophos Ethyl	mg/kg	0.2	<0.2	-	<0.2	-
Methidathion	mg/kg	0.5	<0.5	-	<0.5	-
Ethion	mg/kg	0.2	<0.2	-	<0.2	-
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	-	<0.2	-

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	84	-	94	-
d14-p-terphenyl (Surrogate)	%	-	106	-	112	-

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	-
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	-
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.009	SE131674.010	SE131674.011	SE131674.012
Sample Matrix	Soil	Soil	Soil	Soil
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH15-1	BH15-2	BH16-1	BH16-2

PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98	-	83	-
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	<0.1	0.2	1.0	1.7
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	4	9	5	8
Cadmium, Cd	mg/kg	0.3	0.3	0.4	1.8	0.4
Chromium, Cr	mg/kg	0.3	15	26	22	21
Copper, Cu	mg/kg	0.5	7.4	7.0	31	7.6
Lead, Pb	mg/kg	1	61	25	200	24
Nickel, Ni	mg/kg	0.5	1.9	0.8	5.0	1.0
Zinc, Zn	mg/kg	0.5	150	8.4	480	51

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.04	0.02	0.13	0.02
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	No	-	No	-
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SemiQuant

Estimated Fibres	%w/w	0.01	<0.01	-	<0.01	-
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Moisture Content Method: AN002

% Moisture	%	0.5	21	27	20	27
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.009	SE131674.010	SE131674.011	SE131674.012
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH15-1	BH15-2	BH16-1	BH16-2
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes	µg/L	1.5	-	-	-	-
Total BTEX	µg/L	3	-	-	-	-

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	-
TRH C6-C9	µg/L	40	-	-	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-
TRH C37-C40	µg/L	200	-	-	-	-
TRH C10-C36	µg/L	450	-	-	-	-
TRH C10-C40	µg/L	650	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number	SE131674.009	SE131674.010	SE131674.011	SE131674.012
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH15-1	BH15-2	BH16-1	BH16-2
Units		LOR			

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-	-	-

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	5	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-
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ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.013 Soil 23 Sep 2014 BH17-1	SE131674.014 Soil 23 Sep 2014 BH17-2	SE131674.015 Soil 23 Sep 2014 BH18-1	SE131674.016 Soil 23 Sep 2014 BH19-1
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VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1
Iodomethane	mg/kg	5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.013 Soil 23 Sep 2014 BH17-1	SE131674.014 Soil 23 Sep 2014 BH17-2	SE131674.015 Soil 23 Sep 2014 BH18-1	SE131674.016 Soil 23 Sep 2014 BH19-1
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	59	4.2	0.2	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	0.5
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	0.8
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	0.4
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	0.8
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.013	SE131674.014	SE131674.015	SE131674.016
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH17-1	BH17-2	BH18-1	BH19-1
Units	LOR					

VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	0.2	<0.1	15	17
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	72	82	72	78
d4-1,2-dichloroethane (Surrogate)	%	-	90	122	88	97
d8-toluene (Surrogate)	%	-	86	102	83	97
Bromofluorobenzene (Surrogate)	%	-	93	120	85	101

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	1.2
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	1.9
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	<25	38
TRH C6-C9	mg/kg	20	<20	<20	<20	<20

Surrogates

Dibromofluoromethane (Surrogate)	%	-	78	90	81	85
d4-1,2-dichloroethane (Surrogate)	%	-	80	88	82	84
d8-toluene (Surrogate)	%	-	100	115	93	114
Bromofluorobenzene (Surrogate)	%	-	99	107	90	105



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number	SE131674.013	SE131674.014	SE131674.015	SE131674.016
			Sample Matrix	Soil	Soil	Soil	Soil
			Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
			Sample Name	BH17-1	BH17-2	BH18-1	BH19-1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	34

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	100	610
TRH C15-C28	mg/kg	45	75	<45	360	6500
TRH C29-C36	mg/kg	45	<45	<45	150	3100
TRH C37-C40	mg/kg	100	<100	<100	<100	540
TRH C10-C36 Total	mg/kg	110	<110	<110	620	10000
TRH C10-C40 Total	mg/kg	210	<210	<210	620	11000

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	<25	<25	130	1100
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	<25	<25	110	1100
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	470	8400
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	1200

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	<0.1	14	51
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	2.8	26
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	2.1	25
Acenaphthylene	mg/kg	0.1	0.1	<0.1	0.1	2.2
Acenaphthene	mg/kg	0.1	0.1	<0.1	3.0	72
Fluorene	mg/kg	0.1	0.2	<0.1	1.9	46
Phenanthrene	mg/kg	0.1	0.8	<0.1	8.0	230
Anthracene	mg/kg	0.1	0.2	<0.1	2.4	82
Fluoranthene	mg/kg	0.1	1.2	<0.1	6.8	310
Pyrene	mg/kg	0.1	1.1	<0.1	6.6	300
Benzo(a)anthracene	mg/kg	0.1	0.6	<0.1	2.8	130
Chrysene	mg/kg	0.1	0.4	<0.1	2.2	99
Benzo(b&j)fluoranthene	mg/kg	0.1	0.7	<0.1	2.8	130
Benzo(k)fluoranthene	mg/kg	0.1	0.2	<0.1	1.1	49
Benzo(a)pyrene	mg/kg	0.1	0.5	<0.1	2.5	120
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.4	<0.1	1.8	78
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	8.5
Benzo(ghi)perylene	mg/kg	0.1	0.3	<0.1	1.7	70
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	0.7	<0.2	3.6	160
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	0.8	<0.3	3.6	160
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.8	<0.2	3.6	160
Total PAH	mg/kg	0.8	6.9	<0.8	63	1800



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.013	SE131674.014	SE131674.015	SE131674.016
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH17-1	BH17-2	BH18-1	BH19-1
Units	LOR					

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	88	92	86	80
2-fluorobiphenyl (Surrogate)	%	-	90	88	90	80
d14-p-terphenyl (Surrogate)	%	-	100	108	100	120

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	-	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	0.2
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	-	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	0.2
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	0.4
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.013	SE131674.014	SE131674.015	SE131674.016
Sample Matrix	Soil	Soil	Soil	Soil
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH17-1	BH17-2	BH18-1	BH19-1

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99	-	99	77
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	<0.5	-	<0.5	<10 †
Dimethoate	mg/kg	0.5	<0.5	-	<0.5	<10 †
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	-	<0.5	<10 †
Fenitrothion	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Malathion	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Bromophos Ethyl	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Methidathion	mg/kg	0.5	<0.5	-	<0.5	<10 †
Ethion	mg/kg	0.2	<0.2	-	<0.2	<4.0 †
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	-	<0.2	<4.0 †

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	90	-	90	80
d14-p-terphenyl (Surrogate)	%	-	100	-	100	120

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	<1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.013 Soil 23 Sep 2014 BH17-1	SE131674.014 Soil 23 Sep 2014 BH17-2	SE131674.015 Soil 23 Sep 2014 BH18-1	SE131674.016 Soil 23 Sep 2014 BH19-1
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PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99	-	99	77
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	1.2	0.4	6.0	6.8
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	5	9	9	9
Cadmium, Cd	mg/kg	0.3	0.6	0.4	0.6	0.7
Chromium, Cr	mg/kg	0.3	13	24	21	23
Copper, Cu	mg/kg	0.5	41	4.4	47	28
Lead, Pb	mg/kg	1	500	29	87	47
Nickel, Ni	mg/kg	0.5	8.3	1.5	9.9	5.9
Zinc, Zn	mg/kg	0.5	510	29	170	75

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.59	0.02	0.06	0.04
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	No	-	No	No
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SemiQuant

Estimated Fibres	%w/w	0.01	<0.01	-	<0.01	<0.01
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Moisture Content Method: AN002

% Moisture	%	0.5	28	27	21	16
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.013	SE131674.014	SE131674.015	SE131674.016
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH17-1	BH17-2	BH18-1	BH19-1
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes	µg/L	1.5	-	-	-	-
Total BTEX	µg/L	3	-	-	-	-

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	-
TRH C6-C9	µg/L	40	-	-	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-
TRH C37-C40	µg/L	200	-	-	-	-
TRH C10-C36	µg/L	450	-	-	-	-
TRH C10-C40	µg/L	650	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.013	SE131674.014	SE131674.015	SE131674.016
	Sample Matrix		Soil	Soil	Soil	Soil
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH17-1	BH17-2	BH18-1	BH19-1
Units	LOR					

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-	-	-

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	5	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-
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ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.017	SE131674.018	SE131674.019	SE131674.020
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH19-2	BH21-1	BH21-2	BH22-1
Parameter	Units	LOR			

VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1
Iodomethane	mg/kg	5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.017 Soil 23 Sep 2014 BH19-2	SE131674.018 Soil 23 Sep 2014 BH21-1	SE131674.019 Soil 23 Sep 2014 BH21-2	SE131674.020 Soil 23 Sep 2014 BH22-1
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	0.3	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.3 †	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.017 Soil 23 Sep 2014 BH19-2	SE131674.018 Soil 23 Sep 2014 BH21-1	SE131674.019 Soil 23 Sep 2014 BH21-2	SE131674.020 Soil 23 Sep 2014 BH22-1
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VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	1.4	<0.1	0.4	<0.1
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	73	71	72	72
d4-1,2-dichloroethane (Surrogate)	%	-	96	88	108	92
d8-toluene (Surrogate)	%	-	73	92	84	77
Bromofluorobenzene (Surrogate)	%	-	91	87	110	81

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C9	mg/kg	20	<20	<20	<20	<20

Surrogates

Dibromofluoromethane (Surrogate)	%	-	85	87	81	81
d4-1,2-dichloroethane (Surrogate)	%	-	81	84	81	91
d8-toluene (Surrogate)	%	-	92	102	82	86
Bromofluorobenzene (Surrogate)	%	-	92	91	99	87



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.017 Soil 23 Sep 2014 BH19-2	SE131674.018 Soil 23 Sep 2014 BH21-1	SE131674.019 Soil 23 Sep 2014 BH21-2	SE131674.020 Soil 23 Sep 2014 BH22-1
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Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	52	<20	140	23
TRH C15-C28	mg/kg	45	390	84	160	110
TRH C29-C36	mg/kg	45	150	48	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH C10-C36 Total	mg/kg	110	590	130	300	130
TRH C10-C40 Total	mg/kg	210	590	<210	300	<210

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	84	<25	170	25
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	83	<25	170	25
TRH >C16-C34 (F3)	mg/kg	90	480	130	130	130
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	2.9	<0.1	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	1.7	<0.1	0.2	<0.1
1-methylnaphthalene	mg/kg	0.1	1.5	<0.1	0.3	<0.1
Acenaphthylene	mg/kg	0.1	0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	4.0	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	2.4	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	11	0.5	0.1	<0.1
Anthracene	mg/kg	0.1	4.1	0.2	<0.1	<0.1
Fluoranthene	mg/kg	0.1	15	1.1	0.2	0.1
Pyrene	mg/kg	0.1	14	1.1	0.3	0.1
Benzo(a)anthracene	mg/kg	0.1	6.1	0.8	0.1	<0.1
Chrysene	mg/kg	0.1	4.7	0.6	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	6.2	0.9	0.2	0.1
Benzo(k)fluoranthene	mg/kg	0.1	2.2	0.4	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	5.7	0.8	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	3.7	0.7	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	0.5	0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	3.4	0.6	<0.1	<0.1
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	8.1	1.2	<0.2	<0.2
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	8.1	1.2	<0.3	<0.3
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	8.1	1.2	<0.2	<0.2
Total PAH	mg/kg	0.8	90	8.1	2.2	1.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.017 Soil 23 Sep 2014 BH19-2	SE131674.018 Soil 23 Sep 2014 BH21-1	SE131674.019 Soil 23 Sep 2014 BH21-2	SE131674.020 Soil 23 Sep 2014 BH22-1
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	88	112	82	90
2-fluorobiphenyl (Surrogate)	%	-	82	104	86	92
d14-p-terphenyl (Surrogate)	%	-	88	118	98	102

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	-	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	-	<0.1	-	<0.1
Lindane	mg/kg	0.1	-	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	-	<0.1	-	<0.1
Aldrin	mg/kg	0.1	-	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	-	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	-	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	0.1	-	<0.1	-	<0.1
o,p'-DDE	mg/kg	0.1	-	<0.1	-	0.3
Alpha Endosulfan	mg/kg	0.2	-	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	-	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	-	<0.1	-	<0.1
trans-Nonachlor	mg/kg	0.1	-	<0.1	-	<0.1
p,p'-DDE	mg/kg	0.1	-	<0.1	-	1.6
Dieldrin	mg/kg	0.2	-	<0.2	-	<0.2
Endrin	mg/kg	0.2	-	<0.2	-	<0.2
o,p'-DDD	mg/kg	0.1	-	<0.1	-	1.1
o,p'-DDT	mg/kg	0.1	-	<0.1	-	0.2
Beta Endosulfan	mg/kg	0.2	-	<0.2	-	<0.2
p,p'-DDD	mg/kg	0.1	-	<0.1	-	2.3
p,p'-DDT	mg/kg	0.1	-	<0.1	-	1.4
Endosulfan sulphate	mg/kg	0.1	-	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	-	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	-	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	-	<0.1	-	<0.1
Isodrin	mg/kg	0.1	-	<0.1	-	<0.1
Mirex	mg/kg	0.1	-	<0.1	-	<0.1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.017	SE131674.018	SE131674.019	SE131674.020
Sample Matrix	Soil	Soil	Soil	Soil
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH19-2	BH21-1	BH21-2	BH22-1

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	103	-	99
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	-	<0.5	-	<0.5
Dimethoate	mg/kg	0.5	-	<0.5	-	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	-	<0.5	-	<0.5
Fenitrothion	mg/kg	0.2	-	<0.2	-	<0.2
Malathion	mg/kg	0.2	-	<0.2	-	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	-	<0.2	-	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	-	<0.2	-	<0.2
Bromophos Ethyl	mg/kg	0.2	-	<0.2	-	<0.2
Methidathion	mg/kg	0.5	-	<0.5	-	<0.5
Ethion	mg/kg	0.2	-	<0.2	-	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	-	<0.2	-	<0.2

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	-	104	-	92
d14-p-terphenyl (Surrogate)	%	-	-	118	-	102

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1221	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1232	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1242	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1248	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1254	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1260	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1262	mg/kg	0.2	-	<0.2	-	<0.2
Arochlor 1268	mg/kg	0.2	-	<0.2	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	<1	-	<1



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.017	SE131674.018	SE131674.019	SE131674.020
Sample Matrix	Soil	Soil	Soil	Soil
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH19-2	BH21-1	BH21-2	BH22-1

PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	103	-	99
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	2.8	0.5	1.0	2.0
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	10	7	12	<3
Cadmium, Cd	mg/kg	0.3	0.5	0.9	0.4	0.4
Chromium, Cr	mg/kg	0.3	27	14	31	10
Copper, Cu	mg/kg	0.5	8.2	98	3.7	47
Lead, Pb	mg/kg	1	30	360	62	340
Nickel, Ni	mg/kg	0.5	2.2	23	1.8	11
Zinc, Zn	mg/kg	0.5	20	770	19	410

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.03	0.14	0.05	1.5
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	-	No	-	No
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SemiQuant

Estimated Fibres	%w/w	0.01	-	<0.01	-	<0.01
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Moisture Content Method: AN002

% Moisture	%	0.5	26	22	24	19
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.017	SE131674.018	SE131674.019	SE131674.020
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH19-2	BH21-1	BH21-2	BH22-1
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes	µg/L	1.5	-	-	-	-
Total BTEX	µg/L	3	-	-	-	-

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	-
TRH C6-C9	µg/L	40	-	-	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	-
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-
TRH C37-C40	µg/L	200	-	-	-	-
TRH C10-C36	µg/L	450	-	-	-	-
TRH C10-C40	µg/L	650	-	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number	SE131674.017	SE131674.018	SE131674.019	SE131674.020
	Sample Matrix	Soil	Soil	Soil	Soil
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH19-2	BH21-1	BH21-2	BH22-1
Units		LOR			

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-	-	-

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	5	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-
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ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.021	SE131674.022	SE131674.023	SE131674.024
	Sample Matrix	Soil	Soil	Soil	Water
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH23-1	B1	TB	RB
Parameter	Units	LOR			

VOC's in Soil Method: AN433/AN434

Fumigants

2,2-dichloropropane	mg/kg	0.1	<0.1	-	-	-
1,2-dichloropropane	mg/kg	0.1	<0.1	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	-	-	-

Halogenated Aliphatics

Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	-	-	-
Chloromethane	mg/kg	1	<1	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	-	-	-
Bromomethane	mg/kg	1	<1	-	-	-
Chloroethane	mg/kg	1	<1	-	-	-
Trichlorofluoromethane	mg/kg	1	<1	-	-	-
Iodomethane	mg/kg	5	<5	-	-	-
1,1-dichloroethene	mg/kg	0.1	<0.1	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	-	-	-
Allyl chloride	mg/kg	0.1	<0.1	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-
1,1-dichloroethane	mg/kg	0.1	<0.1	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-
Bromochloromethane	mg/kg	0.1	<0.1	-	-	-
1,2-dichloroethane	mg/kg	0.1	<0.1	-	-	-
1,1,1-trichloroethane	mg/kg	0.1	<0.1	-	-	-
1,1-dichloropropene	mg/kg	0.1	<0.1	-	-	-
Carbon tetrachloride	mg/kg	0.1	<0.1	-	-	-
Dibromomethane	mg/kg	0.1	<0.1	-	-	-
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.1	<0.1	-	-	-
1,1,2-trichloroethane	mg/kg	0.1	<0.1	-	-	-
1,3-dichloropropane	mg/kg	0.1	<0.1	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-
1,2,3-trichloropropane	mg/kg	0.1	<0.1	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	<0.1	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.021 Soil 23 Sep 2014 BH23-1	SE131674.022 Soil 23 Sep 2014 B1	SE131674.023 Soil 23 Sep 2014 TB	SE131674.024 Water 23 Sep 2014 RB
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VOC's in Soil Method: AN433/AN434 (continued)

Halogenated Aromatics

Chlorobenzene	mg/kg	0.1	<0.1	-	-	-
Bromobenzene	mg/kg	0.1	<0.1	-	-	-
2-chlorotoluene	mg/kg	0.1	<0.1	-	-	-
4-chlorotoluene	mg/kg	0.1	<0.1	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	-
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	-	-	-
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	-	-	-
n-propylbenzene	mg/kg	0.1	<0.1	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-
tert-butylbenzene	mg/kg	0.1	<0.1	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-
sec-butylbenzene	mg/kg	0.1	<0.1	-	-	-
p-isopropyltoluene	mg/kg	0.1	<0.1	-	-	-
n-butylbenzene	mg/kg	0.1	<0.1	-	-	-

Nitrogenous Compounds

Acrylonitrile	mg/kg	0.1	<0.1	-	-	-
2-nitropropane	mg/kg	10	<10	-	-	-

Oxygenated Compounds

Acetone (2-propanone)	mg/kg	10	<10	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	-	-	-
Vinyl acetate	mg/kg	10	<10	-	-	-
MEK (2-butanone)	mg/kg	10	<10	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	-	-	-
2-hexanone (MBK)	mg/kg	5	<5	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE131674.021 Soil 23 Sep 2014 BH23-1	SE131674.022 Soil 23 Sep 2014 B1	SE131674.023 Soil 23 Sep 2014 TB	SE131674.024 Water 23 Sep 2014 RB
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VOC's in Soil Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	-
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Sulphonated Compounds

Carbon disulfide	mg/kg	0.5	<0.5	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	72	79	99	-
d4-1,2-dichloroethane (Surrogate)	%	-	87	79	98	-
d8-toluene (Surrogate)	%	-	93	105	107	-
Bromofluorobenzene (Surrogate)	%	-	91	96	116	-

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	-
Total VOC*	mg/kg	24	-	-	-	-

Trihalomethanes

Chloroform	mg/kg	0.1	<0.1	-	-	-
Bromodichloromethane	mg/kg	0.1	<0.1	-	-	-
Chlorodibromomethane	mg/kg	0.1	<0.1	-	-	-
Bromoform	mg/kg	0.1	<0.1	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410

TRH C6-C10	mg/kg	25	<25	<25	-	-
TRH C6-C9	mg/kg	20	<20	<20	-	-

Surrogates

Dibromofluoromethane (Surrogate)	%	-	91	79	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	90	79	-	-
d8-toluene (Surrogate)	%	-	102	105	-	-
Bromofluorobenzene (Surrogate)	%	-	98	96	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.021	SE131674.022	SE131674.023	SE131674.024
	Sample Matrix		Soil	Soil	Soil	Water
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH23-1	B1	TB	RB
Units	LOR					

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434/AN410 (continued)

VPH F Bands

Benzene (F0)	mg/kg	0.1	<0.1	<0.1	-	-
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	-	-
TRH C15-C28	mg/kg	45	<45	<45	-	-
TRH C29-C36	mg/kg	45	<45	<45	-	-
TRH C37-C40	mg/kg	100	<100	<100	-	-
TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
TRH C10-C40 Total	mg/kg	210	<210	<210	-	-

TRH F Bands

TRH >C10-C16 (F2)	mg/kg	25	<25	<25	-	-
TRH >C10-C16 (F2) minus Naphthalene	mg/kg	25	<25	<25	-	-
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	-	-
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	-	-	-
2-methylnaphthalene	mg/kg	0.1	<0.1	-	-	-
1-methylnaphthalene	mg/kg	0.1	<0.1	-	-	-
Acenaphthylene	mg/kg	0.1	<0.1	-	-	-
Acenaphthene	mg/kg	0.1	<0.1	-	-	-
Fluorene	mg/kg	0.1	<0.1	-	-	-
Phenanthrene	mg/kg	0.1	<0.1	-	-	-
Anthracene	mg/kg	0.1	<0.1	-	-	-
Fluoranthene	mg/kg	0.1	<0.1	-	-	-
Pyrene	mg/kg	0.1	<0.1	-	-	-
Benzo(a)anthracene	mg/kg	0.1	<0.1	-	-	-
Chrysene	mg/kg	0.1	<0.1	-	-	-
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.1	<0.1	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	<0.1	-	-	-
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	TEQ	0.2	<0.2	-	-	-
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	-	-	-
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	-	-	-
Total PAH	mg/kg	0.8	<0.8	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.021	SE131674.022	SE131674.023	SE131674.024
	Sample Matrix		Soil	Soil	Soil	Water
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH23-1	B1	TB	RB
Units	LOR					

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Surrogates

d5-nitrobenzene (Surrogate)	%	-	92	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	84	-	-	-
d14-p-terphenyl (Surrogate)	%	-	106	-	-	-

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	-	-
Alpha BHC	mg/kg	0.1	<0.1	-	-	-
Lindane	mg/kg	0.1	<0.1	-	-	-
Heptachlor	mg/kg	0.1	<0.1	-	-	-
Aldrin	mg/kg	0.1	<0.1	-	-	-
Beta BHC	mg/kg	0.1	<0.1	-	-	-
Delta BHC	mg/kg	0.1	<0.1	-	-	-
Heptachlor epoxide	mg/kg	0.1	<0.1	-	-	-
o,p'-DDE	mg/kg	0.1	<0.1	-	-	-
Alpha Endosulfan	mg/kg	0.2	<0.2	-	-	-
Gamma Chlordane	mg/kg	0.1	<0.1	-	-	-
Alpha Chlordane	mg/kg	0.1	<0.1	-	-	-
trans-Nonachlor	mg/kg	0.1	<0.1	-	-	-
p,p'-DDE	mg/kg	0.1	<0.1	-	-	-
Dieldrin	mg/kg	0.2	<0.2	-	-	-
Endrin	mg/kg	0.2	<0.2	-	-	-
o,p'-DDD	mg/kg	0.1	<0.1	-	-	-
o,p'-DDT	mg/kg	0.1	<0.1	-	-	-
Beta Endosulfan	mg/kg	0.2	<0.2	-	-	-
p,p'-DDD	mg/kg	0.1	<0.1	-	-	-
p,p'-DDT	mg/kg	0.1	<0.1	-	-	-
Endosulfan sulphate	mg/kg	0.1	<0.1	-	-	-
Endrin Aldehyde	mg/kg	0.1	<0.1	-	-	-
Methoxychlor	mg/kg	0.1	<0.1	-	-	-
Endrin Ketone	mg/kg	0.1	<0.1	-	-	-
Isodrin	mg/kg	0.1	<0.1	-	-	-
Mirex	mg/kg	0.1	<0.1	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.021	SE131674.022	SE131674.023	SE131674.024
Sample Matrix	Soil	Soil	Soil	Water
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH23-1	B1	TB	RB

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99	-	-	-
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OP Pesticides in Soil Method: AN400/AN420

Dichlorvos	mg/kg	0.5	<0.5	-	-	-
Dimethoate	mg/kg	0.5	<0.5	-	-	-
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	-	-	-
Fenitrothion	mg/kg	0.2	<0.2	-	-	-
Malathion	mg/kg	0.2	<0.2	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	-	-	-
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	-	-
Bromophos Ethyl	mg/kg	0.2	<0.2	-	-	-
Methidathion	mg/kg	0.5	<0.5	-	-	-
Ethion	mg/kg	0.2	<0.2	-	-	-
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	-	-	-

Surrogates

2-fluorobiphenyl (Surrogate)	%	-	84	-	-	-
d14-p-terphenyl (Surrogate)	%	-	106	-	-	-

PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	-	-	-
Arochlor 1221	mg/kg	0.2	<0.2	-	-	-
Arochlor 1232	mg/kg	0.2	<0.2	-	-	-
Arochlor 1242	mg/kg	0.2	<0.2	-	-	-
Arochlor 1248	mg/kg	0.2	<0.2	-	-	-
Arochlor 1254	mg/kg	0.2	<0.2	-	-	-
Arochlor 1260	mg/kg	0.2	<0.2	-	-	-
Arochlor 1262	mg/kg	0.2	<0.2	-	-	-
Arochlor 1268	mg/kg	0.2	<0.2	-	-	-
Total PCBs (Arochlors)	mg/kg	1	<1	-	-	-



ANALYTICAL REPORT

SE131674 R1

Parameter	Units	LOR
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Sample Number	SE131674.021	SE131674.022	SE131674.023	SE131674.024
Sample Matrix	Soil	Soil	Soil	Water
Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
Sample Name	BH23-1	B1	TB	RB

PCBs in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99	-	-	-
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	0.4	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	11	7	-	-
Cadmium, Cd	mg/kg	0.3	0.5	0.9	-	-
Chromium, Cr	mg/kg	0.3	27	25	-	-
Copper, Cu	mg/kg	0.5	7.4	17	-	-
Lead, Pb	mg/kg	1	47	22	-	-
Nickel, Ni	mg/kg	0.5	3.1	3.9	-	-
Zinc, Zn	mg/kg	0.5	55	450	-	-

Mercury in Soil Method: AN312

Mercury	mg/kg	0.01	0.03	0.06	-	-
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	No	-	-	-
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SemiQuant

Estimated Fibres	%w/w	0.01	<0.01	-	-	-
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Moisture Content Method: AN002

% Moisture	%	0.5	31	17	<0.5	-
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VOCs in Water Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	-	-	-	<0.5
Toluene	µg/L	0.5	-	-	-	<0.5
Ethylbenzene	µg/L	0.5	-	-	-	<0.5
m/p-xylene	µg/L	1	-	-	-	<1
o-xylene	µg/L	0.5	-	-	-	<0.5



ANALYTICAL REPORT

SE131674 R1

	Sample Number	SE131674.021	SE131674.022	SE131674.023	SE131674.024
	Sample Matrix	Soil	Soil	Soil	Water
	Sample Date	23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name	BH23-1	B1	TB	RB
Parameter	Units	LOR			

VOCs in Water Method: AN433/AN434 (continued)

Polycyclic VOCs

Naphthalene	µg/L	0.5	-	-	-	<0.5
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	122
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	115
d8-toluene (Surrogate)	%	-	-	-	-	97
Bromofluorobenzene (Surrogate)	%	-	-	-	-	83

Totals

Total Xylenes	µg/L	1.5	-	-	-	<1.5
Total BTEX	µg/L	3	-	-	-	<3

Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434/AN410

TRH C6-C10	µg/L	50	-	-	-	<50
TRH C6-C9	µg/L	40	-	-	-	<40

Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	122
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	115
d8-toluene (Surrogate)	%	-	-	-	-	97
Bromofluorobenzene (Surrogate)	%	-	-	-	-	83

VPH F Bands

Benzene (F0)	µg/L	0.5	-	-	-	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	-	-	<50

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403

TRH C10-C14	µg/L	50	-	-	-	<50
TRH C15-C28	µg/L	200	-	-	-	<200
TRH C29-C36	µg/L	200	-	-	-	<200
TRH C37-C40	µg/L	200	-	-	-	<200
TRH C10-C36	µg/L	450	-	-	-	<450
TRH C10-C40	µg/L	650	-	-	-	<650



ANALYTICAL REPORT

SE131674 R1

Parameter	Sample Number		SE131674.021	SE131674.022	SE131674.023	SE131674.024
	Sample Matrix		Soil	Soil	Soil	Water
	Sample Date		23 Sep 2014	23 Sep 2014	23 Sep 2014	23 Sep 2014
	Sample Name		BH23-1	B1	TB	RB
Parameter	Units	LOR				

TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)

TRH F Bands

TRH >C10-C16 (F2)	µg/L	60	-	-	-	<60
TRH >C16-C34 (F3)	µg/L	500	-	-	-	<500
TRH >C34-C40 (F4)	µg/L	500	-	-	-	<500

Trace Metals (Dissolved) in Water by ICPMS Method: AN318

Arsenic, As	µg/L	1	-	-	-	<1
Cadmium, Cd	µg/L	0.1	-	-	-	<0.1
Chromium, Cr	µg/L	1	-	-	-	<1
Copper, Cu	µg/L	1	-	-	-	<1
Lead, Pb	µg/L	1	-	-	-	<1
Nickel, Ni	µg/L	1	-	-	-	1
Zinc, Zn	µg/L	5	-	-	-	<5

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	<0.0001
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MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB064639	mg/L	0.0001	0.0000	0 - 7%	94%	88%

Mercury in Soil Method: ME-(AU)-[ENV]AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB064768	mg/kg	0.01	<0.01	0 - 28%	112%	77%
	LB064771	mg/kg	0.01	<0.01	0 - 13%	112%	74%

Moisture Content Method: ME-(AU)-[ENV]AN002

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB064738	%	0.5	0 - 6%

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Hexachlorobenzene (HCB)	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Alpha BHC	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Lindane	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Heptachlor	LB064690	mg/kg	0.1	<0.1	0%	97%	106%	9%
	LB064691	mg/kg	0.1	<0.1	0%	90%	105%	0%
Aldrin	LB064690	mg/kg	0.1	<0.1	0%	100%	112%	10%
	LB064691	mg/kg	0.1	<0.1	0%	93%	107%	0%
Beta BHC	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Delta BHC	LB064690	mg/kg	0.1	<0.1	0%	92%	106%	10%
	LB064691	mg/kg	0.1	<0.1	0%	84%	96%	1%
Heptachlor epoxide	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
o,p'-DDE	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Alpha Endosulfan	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Gamma Chlordane	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Alpha Chlordane	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
trans-Nonachlor	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
p,p'-DDE	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Dieldrin	LB064690	mg/kg	0.2	<0.2	0%	96%	113%	12%
	LB064691	mg/kg	0.2	<0.2	0%	90%	109%	1%
Endrin	LB064690	mg/kg	0.2	<0.2	0%	102%	115%	10%
	LB064691	mg/kg	0.2	<0.2	0%	96%	114%	1%
o,p'-DDD	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
o,p'-DDT	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Beta Endosulfan	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
p,p'-DDD	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
p,p'-DDT	LB064690	mg/kg	0.1	<0.1	0%	81%	93%	13%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
p,p'-DDT	LB064691	mg/kg	0.1	<0.1	0%	80%	98%	4%
Endosulfan sulphate	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Endrin Aldehyde	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Methoxychlor	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Endrin Ketone	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Isodrin	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Mirex	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB064690	%	-	90%	3%	102%	105%	7%
	LB064691	%	-	83%	0 - 3%	90%	105%	1%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

OP Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Dichlorvos	LB064690	mg/kg	0.5	<0.5	0%	90%	85%	4%
	LB064691	mg/kg	0.5	<0.5	0%	85%	102%	1%
Dimethoate	LB064690	mg/kg	0.5	<0.5	0%	NA	NA	NA
	LB064691	mg/kg	0.5	<0.5	0%	NA	NA	NA
Diazinon (Dimpylate)	LB064690	mg/kg	0.5	<0.5	0%	85%	88%	6%
	LB064691	mg/kg	0.5	<0.5	0%	78%	89%	5%
Fenitrothion	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Malathion	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB064690	mg/kg	0.2	<0.2	0%	82%	80%	21%
	LB064691	mg/kg	0.2	<0.2	0%	79%	112%	0%
Parathion-ethyl (Parathion)	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Bromophos Ethyl	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Methidathion	LB064690	mg/kg	0.5	<0.5	0%	NA	NA	NA
	LB064691	mg/kg	0.5	<0.5	0%	NA	NA	NA
Ethion	LB064690	mg/kg	0.2	<0.2	0%	90%	77%	5%
	LB064691	mg/kg	0.2	<0.2	0%	80%	108%	6%
Azinphos-methyl (Guthion)	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
2-fluorobiphenyl (Surrogate)	LB064690	%	-	82%	2%	84%	90%	0%
	LB064691	%	-	80%	5 - 7%	86%	86%	0%
d14-p-terphenyl (Surrogate)	LB064690	%	-	98%	6%	96%	102%	4%
	LB064691	%	-	90%	2 - 9%	90%	100%	2%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Naphthalene	LB064690	mg/kg	0.1	<0.1	0%	90%	94%	1%
	LB064691	mg/kg	0.1	<0.1	10 - 26%	95%	88%	0%
2-methylnaphthalene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
1-methylnaphthalene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Acenaphthylene	LB064690	mg/kg	0.1	<0.1	0%	92%	103%	5%
	LB064691	mg/kg	0.1	<0.1	4 - 53%	99%	91%	0%
Acenaphthene	LB064690	mg/kg	0.1	<0.1	0%	87%	102%	2%
	LB064691	mg/kg	0.1	<0.1	0%	94%	92%	2%
Fluorene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0 - 18%	NA	NA	NA
Phenanthrene	LB064690	mg/kg	0.1	<0.1	0%	93%	97%	0%
	LB064691	mg/kg	0.1	<0.1	26 - 34%	98%	78%	17%
Anthracene	LB064690	mg/kg	0.1	<0.1	0%	88%	108%	1%
	LB064691	mg/kg	0.1	<0.1	9 - 42%	93%	80%	0%
Fluoranthene	LB064690	mg/kg	0.1	<0.1	0 - 7%	87%	82%	6%
	LB064691	mg/kg	0.1	<0.1	8 - 21%	95%	77%	17%
Pyrene	LB064690	mg/kg	0.1	<0.1	0 - 13%	90%	96%	0%
	LB064691	mg/kg	0.1	<0.1	8 - 16%	97%	80%	9%
Benzo(a)anthracene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	8 - 16%	NA	NA	NA
Chrysene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	9 - 17%	NA	NA	NA
Benzo(b&j)fluoranthene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	3 - 25%	NA	NA	NA
Benzo(k)fluoranthene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	7 - 11%	NA	NA	NA
Benzo(a)pyrene	LB064690	mg/kg	0.1	<0.1	0%	100%	107%	1%
	LB064691	mg/kg	0.1	<0.1	6 - 27%	101%	88%	11%
Indeno(1,2,3-cd)pyrene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	6 - 35%	NA	NA	NA
Dibenzo(a&h)anthracene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	0%	NA	NA	NA
Benzo(ghi)perylene	LB064690	mg/kg	0.1	<0.1	0%	NA	NA	NA
	LB064691	mg/kg	0.1	<0.1	8 - 33%	NA	NA	NA
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0*	LB064690	TEQ	0.2	<0.2	0%	NA	NA	NA
	LB064691	TEQ	0.2	<0.2	6 - 26%	NA	NA	NA
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR*	LB064690	TEQ (mg/kg)	0.3	<0.3	0%	NA	NA	NA
	LB064691	TEQ (mg/kg)	0.3	<0.3	6 - 24%	NA	NA	NA
Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2*	LB064690	TEQ (mg/kg)	0.2	<0.2	0%	NA	NA	NA
	LB064691	TEQ (mg/kg)	0.2	<0.2	6 - 25%	NA	NA	NA
Total PAH	LB064690	mg/kg	0.8	<0.8	0 - 2%	NA	NA	NA
	LB064691	mg/kg	0.8	<0.8	9 - 23%	NA	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
d5-nitrobenzene (Surrogate)	LB064690	%	-	84%	2 - 7%	90%	90%	0%
	LB064691	%	-	80%	0 - 2%	86%	92%	2%
2-fluorobiphenyl (Surrogate)	LB064690	%	-	82%	2 - 5%	84%	90%	0%
	LB064691	%	-	80%	5 - 7%	86%	86%	0%
d14-p-terphenyl (Surrogate)	LB064690	%	-	98%	2 - 6%	96%	102%	4%
	LB064691	%	-	90%	2 - 9%	90%	100%	2%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Arochlor 1016	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1221	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1232	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1242	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1248	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1254	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1260	LB064690	mg/kg	0.2	<0.2	0%	113%	118%	4%
	LB064691	mg/kg	0.2	<0.2	0%	106%	113%	2%
Arochlor 1262	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Arochlor 1268	LB064690	mg/kg	0.2	<0.2	0%	NA	NA	NA
	LB064691	mg/kg	0.2	<0.2	0%	NA	NA	NA
Total PCBs (Arochlors)	LB064690	mg/kg	1	<1	0%	NA	NA	NA
	LB064691	mg/kg	1	<1	0%	NA	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB064690	%	-	90%	3%	98%	103%	3%
	LB064691	%	-	83%	0 - 3%	93%	105%	1%

Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Phenols	LB064906	mg/kg	0.1	<0.1	4 - 27%	97%	
	LB064908	mg/kg	0.1	<0.1	11%	83%	86%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB064761	mg/kg	3	<1	2 - 59%	100%	95%
	LB064762	mg/kg	3	<3	2 - 10%	100%	88%
	LB064825	mg/kg	3	<3	6%	100%	90%
Cadmium, Cd	LB064761	mg/kg	0.3	<0.3	11 - 16%	103%	91%
	LB064762	mg/kg	0.3	<0.3	2 - 6%	103%	98%
	LB064825	mg/kg	0.3	<0.3	0%	103%	94%
Chromium, Cr	LB064761	mg/kg	0.3	<0.5	32 - 85%	102%	91%
	LB064762	mg/kg	0.3	<0.3	2 - 14%	101%	92%
	LB064825	mg/kg	0.3	<0.3	1%	102%	85%
Copper, Cu	LB064761	mg/kg	0.5	<0.5	21 - 31%	101%	120%
	LB064762	mg/kg	0.5	<0.5	14 - 18%	100%	103%
	LB064825	mg/kg	0.5	<0.5	3%	102%	96%
Lead, Pb	LB064761	mg/kg	1	<1	18 - 22%	101%	88%
	LB064762	mg/kg	1	<1	7 - 12%	100%	56%
	LB064825	mg/kg	1	<1	3 - 6%	101%	80%
Nickel, Ni	LB064761	mg/kg	0.5	<0.5	12 - 60%	100%	99%
	LB064762	mg/kg	0.5	<0.5	10 - 34%	99%	98%
	LB064825	mg/kg	0.5	<0.5	1%	101%	92%
Zinc, Zn	LB064761	mg/kg	0.5	<2.0	13 - 25%	102%	156%
	LB064762	mg/kg	0.5	<0.5	7 - 17%	101%	-11%
	LB064825	mg/kg	0.5	<0.5	2%	102%	71%

Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arsenic, As	LB064724	µg/L	1	<1	3%	85%
Cadmium, Cd	LB064724	µg/L	0.1	<0.1	0%	94%
Chromium, Cr	LB064724	µg/L	1	<1	0%	98%
Copper, Cu	LB064724	µg/L	1	<1	8 - 11%	105%
Lead, Pb	LB064724	µg/L	1	<1	0%	96%
Nickel, Ni	LB064724	µg/L	1	<1	10%	108%
Zinc, Zn	LB064724	µg/L	5	<5	0 - 6%	92%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
TRH C10-C14	LB064690	mg/kg	20	<20	0 - 65%	93%	93%	3%
	LB064691	mg/kg	20	<20	0%	85%	113%	14%
TRH C15-C28	LB064690	mg/kg	45	<45	0 - 1%	98%	100%	2%
	LB064691	mg/kg	45	<45	0 - 10%	85%	103%	16%
TRH C29-C36	LB064690	mg/kg	45	<45	0%	80%	73%	3%
	LB064691	mg/kg	45	<45	0%	73%	133%	47%
TRH C37-C40	LB064690	mg/kg	100	<100	0%	NA	NA	NA
	LB064691	mg/kg	100	<100	0%	NA	NA	NA
TRH C10-C36 Total	LB064690	mg/kg	110	<110	0 - 16%	NA	NA	NA
	LB064691	mg/kg	110	<110	0%	NA	NA	NA
TRH C10-C40 Total	LB064690	mg/kg	210	<210	0%	NA	NA	NA
	LB064691	mg/kg	210	<210	0%	NA	NA	NA

TRH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery	MSD %RPD
TRH >C10-C16 (F2)	LB064690	mg/kg	25	<25	0 - 72%	93%	93%	0%
	LB064691	mg/kg	25	<25	0%	85%	103%	10%
TRH >C10-C16 (F2) minus Naphthalene	LB064690	mg/kg	25	<25	0 - 72%	NA	NA	NA
	LB064691	mg/kg	25	<25	0%	NA	NA	NA
TRH >C16-C34 (F3)	LB064690	mg/kg	90	<90	0 - 7%	95%	93%	3%
	LB064691	mg/kg	90	<90	0 - 10%	78%	110%	5%
TRH >C34-C40 (F4)	LB064690	mg/kg	120	<120	0%	85%	NA	NA
	LB064691	mg/kg	120	<120	0%	80%	NA	NA

TRH (Total Recoverable Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C10-C14	LB064695	µg/L	50	<50	88%
TRH C15-C28	LB064695	µg/L	200	<200	96%
TRH C29-C36	LB064695	µg/L	200	<200	96%
TRH C37-C40	LB064695	µg/L	200	<200	NA
TRH C10-C36	LB064695	µg/L	450	<450	NA
TRH C10-C40	LB064695	µg/L	650	<650	NA

TRH F Bands

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH >C10-C16 (F2)	LB064695	µg/L	60	<60	89%
TRH >C16-C34 (F3)	LB064695	µg/L	500	<500	97%
TRH >C34-C40 (F4)	LB064695	µg/L	500	<500	102%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Fumigants

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
2,2-dichloropropane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2-dichloropropane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
cis-1,3-dichloropropene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
trans-1,3-dichloropropene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2-dibromoethane (EDB)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dichlorodifluoromethane (CFC-12)	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
Chloromethane	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
Vinyl chloride (Chloroethene)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Bromomethane	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
Chloroethane	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
Trichlorofluoromethane	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
Iodomethane	LB064655	mg/kg	5	<5	0%	NA	NA
	LB064657	mg/kg	5	<5		NA	NA
1,1-dichloroethene	LB064655	mg/kg	0.1	<0.1	0%	118%	113%
	LB064657	mg/kg	0.1	<0.1		102%	104%
Dichloromethane (Methylene chloride)	LB064655	mg/kg	0.5	<0.5	0%	NA	NA
	LB064657	mg/kg	0.5	<0.5		NA	NA
Allyl chloride	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
trans-1,2-dichloroethene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,1-dichloroethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
cis-1,2-dichloroethene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Bromochloromethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2-dichloroethane	LB064655	mg/kg	0.1	<0.1	0%	117%	113%
	LB064657	mg/kg	0.1	<0.1		100%	120%
1,1,1-trichloroethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,1-dichloropropene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Carbon tetrachloride	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Dibromomethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Trichloroethene (Trichloroethylene -TCE)	LB064655	mg/kg	0.1	<0.1	0%	85%	82%
	LB064657	mg/kg	0.1	<0.1		78%	112%
1,1,2-trichloroethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
1,3-dichloropropane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,1,1,2-tetrachloroethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
cis-1,4-dichloro-2-butene	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
1,1,2,2-tetrachloroethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2,3-trichloropropane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
trans-1,4-dichloro-2-butene	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
1,2-dibromo-3-chloropropane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Hexachlorobutadiene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Chlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	106%	105%
	LB064657	mg/kg	0.1	<0.1		102%	129%
Bromobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
2-chlorotoluene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
4-chlorotoluene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,3-dichlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,4-dichlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2-dichlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2,4-trichlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2,3-trichlorobenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB064655	mg/kg	0.1	<0.1	0%	96%	90%
	LB064657	mg/kg	0.1	<0.1	0%	80%	79%
Toluene	LB064655	mg/kg	0.1	<0.1	0%	89%	89%
	LB064657	mg/kg	0.1	<0.1	0%	88%	106%
Ethylbenzene	LB064655	mg/kg	0.1	<0.1	0%	89%	89%
	LB064657	mg/kg	0.1	<0.1	0%	88%	115%
m/p-xylene	LB064655	mg/kg	0.2	<0.2	0%	93%	93%
	LB064657	mg/kg	0.2	<0.2	0%	89%	113%
Styrene (Vinyl benzene)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
o-xylene	LB064655	mg/kg	0.1	<0.1	0%	98%	97%
	LB064657	mg/kg	0.1	<0.1	0%	92%	110%
Isopropylbenzene (Cumene)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
n-propylbenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
n-propylbenzene	LB064657	mg/kg	0.1	<0.1		NA	NA
1,3,5-trimethylbenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
tert-butylbenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
1,2,4-trimethylbenzene	LB064655	mg/kg	0.1	<0.1	0 - 21%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
sec-butylbenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
p-isopropyltoluene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
n-butylbenzene	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Acrylonitrile	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
2-nitropropane	LB064655	mg/kg	10	<10	0%	NA	NA
	LB064657	mg/kg	10	<10		NA	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Acetone (2-propanone)	LB064655	mg/kg	10	<10	0%	NA	NA
	LB064657	mg/kg	10	<10		NA	NA
MtBE (Methyl-tert-butyl ether)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Vinyl acetate	LB064655	mg/kg	10	<10	0%	NA	NA
	LB064657	mg/kg	10	<10		NA	NA
MEK (2-butanone)	LB064655	mg/kg	10	<10	0%	NA	NA
	LB064657	mg/kg	10	<10		NA	NA
MIBK (4-methyl-2-pentanone)	LB064655	mg/kg	1	<1	0%	NA	NA
	LB064657	mg/kg	1	<1		NA	NA
2-hexanone (MBK)	LB064655	mg/kg	5	<5	0%	NA	NA
	LB064657	mg/kg	5	<5		NA	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB064655	mg/kg	0.1	<0.1	0 - 11%	NA	NA
	LB064657	mg/kg	0.1	<0.1	0%	NA	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Carbon disulfide	LB064655	mg/kg	0.5	<0.5	0%	NA	NA
	LB064657	mg/kg	0.5	<0.5		NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB064655	%	-	112%	1 - 10%	113%	112%
	LB064657	%	-	85%	13 - 14%	95%	97%
d4-1,2-dichloroethane (Surrogate)	LB064655	%	-	104%	12 - 17%	120%	112%
	LB064657	%	-	101%	7 - 15%	94%	103%
d8-toluene (Surrogate)	LB064655	%	-	115%	5 - 10%	93%	91%
	LB064657	%	-	102%	7 - 15%	94%	89%
Bromofluorobenzene (Surrogate)	LB064655	%	-	110%	6 - 10%	107%	104%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
Bromofluorobenzene (Surrogate)	LB064657	%	-	100%	10 - 11%	106%	106%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Xylenes*	LB064655	mg/kg	0.3	<0.3	0%	NA	NA
	LB064657	mg/kg	0.3	<0.3	0%	NA	NA
Total BTEX*	LB064655	mg/kg	0.6	<0.3	0%	NA	NA
	LB064657	mg/kg	0.6	<0.6	0%	NA	NA

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Chloroform	LB064655	mg/kg	0.1	<0.1	0%	96%	84%
	LB064657	mg/kg	0.1	<0.1		79%	93%
Bromodichloromethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Chlorodibromomethane	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA
Bromoform	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1		NA	NA

VOCs in Water Method: ME-(AU)-[ENV]AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene	LB064697	µg/L	0.5	<0.5	111%
Toluene	LB064697	µg/L	0.5	<0.5	113%
Ethylbenzene	LB064697	µg/L	0.5	<0.5	112%
m/p-xylene	LB064697	µg/L	1	<1	111%
o-xylene	LB064697	µg/L	0.5	<0.5	112%

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB064697	µg/L	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB064697	%	-	92%	96%
d4-1,2-dichloroethane (Surrogate)	LB064697	%	-	99%	96%
d8-toluene (Surrogate)	LB064697	%	-	88%	99%
Bromofluorobenzene (Surrogate)	LB064697	%	-	81%	99%

Totals

Parameter	QC Reference	Units	LOR	MB
Total Xylenes	LB064697	µg/L	1.5	<1.5
Total BTEX	LB064697	µg/L	3	<3

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434/AN410

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C10	LB064655	mg/kg	25	<25	0%	92%	93%
	LB064657	mg/kg	25	<25	0%	91%	92%
TRH C6-C9	LB064655	mg/kg	20	<20	0%	87%	89%
	LB064657	mg/kg	20	<20	0%	91%	89%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB064655	%	-	108%	2 - 10%	100%	88%
	LB064657	%	-	90%	13 - 14%	91%	101%
d4-1,2-dichloroethane (Surrogate)	LB064655	%	-	114%	0 - 12%	102%	96%
	LB064657	%	-	87%	7 - 15%	91%	80%
d8-toluene (Surrogate)	LB064655	%	-	108%	13 - 27%	110%	87%
	LB064657	%	-	101%	7 - 15%	112%	88%
Bromofluorobenzene (Surrogate)	LB064655	%	-	101%	9 - 11%	110%	90%
	LB064657	%	-	89%	10 - 11%	109%	101%

VPF F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene (F0)	LB064655	mg/kg	0.1	<0.1	0%	NA	NA
	LB064657	mg/kg	0.1	<0.1	0%	NA	NA
TRH C6-C10 minus BTEX (F1)	LB064655	mg/kg	25	<25	0%	89%	95%
	LB064657	mg/kg	25	<25	0%	100%	57%

Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433/AN434/AN410

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C10	LB064697	µg/L	50	<50	107%
TRH C6-C9	LB064697	µg/L	40	<40	101%

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB064697	%	-	92%	96%
d4-1,2-dichloroethane (Surrogate)	LB064697	%	-	99%	96%
d8-toluene (Surrogate)	LB064697	%	-	88%	99%
Bromofluorobenzene (Surrogate)	LB064697	%	-	81%	99%

VPF F Bands

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene (F0)	LB064697	µg/L	0.5	<0.5	NA
TRH C6-C10 minus BTEX (F1)	LB064697	µg/L	50	<50	110%

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN289	Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.

METHOD

METHODOLOGY SUMMARY

AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN433/AN434/AN410	VOCs and C6-C9/C6-C10 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf).
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."



FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	This analysis is not covered by the scope of accreditation.	QFH	QC result is above the upper tolerance
**	Indicative data, theoretical holding time exceeded.	QFL	QC result is below the lower tolerance
^	Performed by outside laboratory.	-	The sample was not analysed for this analyte
		NVL	Not Validated

Samples analysed as received.

Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
[http://www.sgs.com.au/~media/Local/Australia/Documents/ Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf](http://www.sgs.com.au/~media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf)

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Project **E22317 - 75 Mary St, St Peters NSW**
Order Number **E22317**
Samples 24

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SGS Reference SE131674 R0
Report Number 0000092495
Date Reported 02 Oct 2014
Date Received 25 Sep 2014

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

PAH/OP/VOC/VP - The Limit of Reporting (LOR) has been raised due to interferences from the sample matrix.

No respirable fibres detected in all samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



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Senior Organic Chemist



Dong Liang
Metals/Inorganics Team Leader



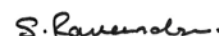
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Asbestos Analyst



ANALYTICAL REPORT

SE131674 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE131674.001	BH7-1	Soil	57g Clay,sand,rocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.002	BH8-1	Soil	42g Clay,soil,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.003	BH9-1	Soil	56g Clay,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.004	BH10-1	Soil	30g Clay,soil,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.005	BH11-1	Soil	26g Sand,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.006	BH12-1	Soil	26g Sand,soil,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.007	BH14-1	Soil	44g Sand,soil,rocks, clay	23 Sep 2014	No Asbestos Found	<0.01
SE131674.009	BH15-1	Soil	24g Clay,rocks	23 Sep 2014	No Asbestos Found	<0.01
SE131674.011	BH16-1	Soil	67g Sand,soil,rocks, clay	23 Sep 2014	No Asbestos Found	<0.01
SE131674.013	BH17-1	Soil	41g Clay,soil,rocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.015	BH18-1	Soil	49g Clay,soil,rocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.016	BH19-1	Soil	36g Sand,soil,rocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.018	BH214-1	Soil	45g Clay,sand,soil,r ocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.020	BH22-1	Soil	40g Clay,sand,soil,r ocks	23 Sep 2014	No Asbestos Found Organic Fibres Detected	<0.01
SE131674.021	BH23-1	Soil	30g Clay,soil,rocks	23 Sep 2014	No Asbestos Found	<0.01

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf).
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.

This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarized light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarized light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarized light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : [http://www.sgs.com.au/~media/Local/Australia/Documents/ Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf](http://www.sgs.com.au/~media/Local/Australia/Documents/Technical%20Documents/MP-AU-ENV-QU-022%20QA%20QC%20Plan.pdf)

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STATEMENT OF QA/QC PERFORMANCE

SE131674 R1

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Project **E22317 - 75 Mary St, St Peters NSW**
Order Number **E22317**
Samples 24

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SGS Reference SE131674 R1
Report Number 0000093126
Date Reported 15 Oct 2014

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS Environmental Services' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document and was supplied by the Client. This QA/QC Statement must be read in conjunction with the referenced Analytical Report. The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	2 items
	Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest	3 items
Matrix Spike	Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest	1 item
	Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest	2 items
	Volatile Petroleum Hydrocarbons in Soil	1 item

SAMPLE SUMMARY

Sample counts by matrix	23 Soils, 1 Water	Type of documentation received	COC
Date documentation received	25/9/2014	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4.0°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE131674 R1

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Fibre Identification in soil

Method: ME-(AU)-ENVJAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH8-1	SE131674.002	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH9-1	SE131674.003	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH10-1	SE131674.004	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH11-1	SE131674.005	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH12-1	SE131674.006	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH14-1	SE131674.007	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH15-1	SE131674.009	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH16-1	SE131674.011	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH17-1	SE131674.013	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH18-1	SE131674.015	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH19-1	SE131674.016	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH21-1	SE131674.018	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH22-1	SE131674.020	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014
BH23-1	SE131674.021	LB064939	23 Sep 2014	25 Sep 2014	23 Sep 2015	02 Oct 2014	23 Sep 2015	02 Oct 2014

Mercury (dissolved) in Water

Method: ME-(AU)-ENVJAN311/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RB	SE131674.024	LB064639	23 Sep 2014	25 Sep 2014	21 Oct 2014	29 Sep 2014	21 Oct 2014	29 Sep 2014

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064768	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH8-1	SE131674.002	LB064768	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH9-1	SE131674.003	LB064768	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH10-1	SE131674.004	LB064768	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH11-1	SE131674.005	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH12-1	SE131674.006	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH14-1	SE131674.007	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH14-2	SE131674.008	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH15-1	SE131674.009	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH15-2	SE131674.010	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH16-1	SE131674.011	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH16-2	SE131674.012	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH17-1	SE131674.013	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH17-2	SE131674.014	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH18-1	SE131674.015	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH19-1	SE131674.016	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH19-2	SE131674.017	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH21-1	SE131674.018	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH21-2	SE131674.019	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH22-1	SE131674.020	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
BH23-1	SE131674.021	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014
B1	SE131674.022	LB064771	23 Sep 2014	25 Sep 2014	21 Oct 2014	30 Sep 2014	21 Oct 2014	02 Oct 2014

Moisture Content

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH8-1	SE131674.002	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH9-1	SE131674.003	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH10-1	SE131674.004	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH11-1	SE131674.005	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH12-1	SE131674.006	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH14-1	SE131674.007	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH14-2	SE131674.008	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH15-1	SE131674.009	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH15-2	SE131674.010	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH16-1	SE131674.011	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH16-2	SE131674.012	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH17-1	SE131674.013	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014



HOLDING TIME SUMMARY

SE131674 R1

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content (continued)

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH17-2	SE131674.014	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH18-1	SE131674.015	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH19-1	SE131674.016	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH19-2	SE131674.017	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH21-1	SE131674.018	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH21-2	SE131674.019	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH22-1	SE131674.020	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
BH23-1	SE131674.021	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
B1	SE131674.022	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014
TB	SE131674.023	LB064738	23 Sep 2014	25 Sep 2014	07 Oct 2014	30 Sep 2014	05 Oct 2014	01 Oct 2014

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

PCBs in Soil

Method: ME-(AU)-ENVJAN400/AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

Total Phenolics in Soil

Method: ME-(AU)-ENVJAN289

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH8-1	SE131674.002	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH9-1	SE131674.003	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH10-1	SE131674.004	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH11-1	SE131674.005	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH12-1	SE131674.006	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH14-1	SE131674.007	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH14-2	SE131674.008	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH15-1	SE131674.009	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH15-2	SE131674.010	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH16-1	SE131674.011	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Total Phenolics in Soil (continued)

Method: ME-(AU)-[ENV]AN289

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH16-2	SE131674.012	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH17-1	SE131674.013	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH17-2	SE131674.014	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH18-1	SE131674.015	LB064906	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH19-1	SE131674.016	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH19-2	SE131674.017	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH21-1	SE131674.018	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH21-2	SE131674.019	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH22-1	SE131674.020	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014
BH23-1	SE131674.021	LB064908	23 Sep 2014	25 Sep 2014	07 Oct 2014	02 Oct 2014	07 Oct 2014	02 Oct 2014

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064761	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH8-1	SE131674.002	LB064761	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH9-1	SE131674.003	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH10-1	SE131674.004	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH11-1	SE131674.005	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH12-1	SE131674.006	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH14-1	SE131674.007	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH14-2	SE131674.008	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH15-1	SE131674.009	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH15-2	SE131674.010	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH16-1	SE131674.011	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH16-2	SE131674.012	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH17-1	SE131674.013	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH17-2	SE131674.014	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH18-1	SE131674.015	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH19-1	SE131674.016	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH19-2	SE131674.017	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH21-1	SE131674.018	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH21-2	SE131674.019	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH22-1	SE131674.020	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
BH23-1	SE131674.021	LB064762	23 Sep 2014	25 Sep 2014	22 Mar 2015	30 Sep 2014	22 Mar 2015	02 Oct 2014
B1	SE131674.022	LB064825	23 Sep 2014	25 Sep 2014	22 Mar 2015	01 Oct 2014	22 Mar 2015	02 Oct 2014

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RB	SE131674.024	LB064724	23 Sep 2014	25 Sep 2014	22 Mar 2015	29 Sep 2014	22 Mar 2015	30 Sep 2014

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014



HOLDING TIME SUMMARY

SE131674 R1

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH21-2	SE131674.019	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064690	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064691	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RB	SE131674.024	LB064695	23 Sep 2014	25 Sep 2014	30 Sep 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH22-1	SE131674.020	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
TB	SE131674.023	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

VOCs in Water

Method: ME-(AU)-[ENV]AN433/AN434

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RB	SE131674.024	LB064697	23 Sep 2014	25 Sep 2014	30 Sep 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433/AN434/AN410

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH7-1	SE131674.001	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH8-1	SE131674.002	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH9-1	SE131674.003	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH10-1	SE131674.004	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH11-1	SE131674.005	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH12-1	SE131674.006	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-1	SE131674.007	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH14-2	SE131674.008	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-1	SE131674.009	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH15-2	SE131674.010	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-1	SE131674.011	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH16-2	SE131674.012	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-1	SE131674.013	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH17-2	SE131674.014	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH18-1	SE131674.015	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-1	SE131674.016	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH19-2	SE131674.017	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-1	SE131674.018	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH21-2	SE131674.019	LB064655	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014



HOLDING TIME SUMMARY

SE131674 R1

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433/AN434/AN410

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH22-1	SE131674.020	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
BH23-1	SE131674.021	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
B1	SE131674.022	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014
TB	SE131674.023	LB064657	23 Sep 2014	25 Sep 2014	07 Oct 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433/AN434/AN410

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RB	SE131674.024	LB064697	23 Sep 2014	25 Sep 2014	30 Sep 2014	29 Sep 2014	08 Nov 2014	02 Oct 2014

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	100
	BH8-1	SE131674.002	%	60 - 130%	103
	BH9-1	SE131674.003	%	60 - 130%	109
	BH10-1	SE131674.004	%	60 - 130%	102
	BH11-1	SE131674.005	%	60 - 130%	103
	BH12-1	SE131674.006	%	60 - 130%	99
	BH14-1	SE131674.007	%	60 - 130%	95
	BH15-1	SE131674.009	%	60 - 130%	98
	BH16-1	SE131674.011	%	60 - 130%	83
	BH17-1	SE131674.013	%	60 - 130%	99
	BH18-1	SE131674.015	%	60 - 130%	99
	BH19-1	SE131674.016	%	60 - 130%	77
	BH21-1	SE131674.018	%	60 - 130%	103
	BH22-1	SE131674.020	%	60 - 130%	99
	BH23-1	SE131674.021	%	60 - 130%	99

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN400/AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	90
	BH8-1	SE131674.002	%	60 - 130%	92
	BH9-1	SE131674.003	%	60 - 130%	96
	BH10-1	SE131674.004	%	60 - 130%	94
	BH11-1	SE131674.005	%	60 - 130%	92
	BH12-1	SE131674.006	%	60 - 130%	86
	BH14-1	SE131674.007	%	60 - 130%	92
	BH15-1	SE131674.009	%	60 - 130%	84
	BH16-1	SE131674.011	%	60 - 130%	94
	BH17-1	SE131674.013	%	60 - 130%	90
	BH18-1	SE131674.015	%	60 - 130%	90
	BH19-1	SE131674.016	%	60 - 130%	80
	BH21-1	SE131674.018	%	60 - 130%	104
	BH22-1	SE131674.020	%	60 - 130%	92
	BH23-1	SE131674.021	%	60 - 130%	84
d14-p-terphenyl (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	112
	BH8-1	SE131674.002	%	60 - 130%	108
	BH9-1	SE131674.003	%	60 - 130%	108
	BH10-1	SE131674.004	%	60 - 130%	106
	BH11-1	SE131674.005	%	60 - 130%	106
	BH12-1	SE131674.006	%	60 - 130%	104
	BH14-1	SE131674.007	%	60 - 130%	96
	BH15-1	SE131674.009	%	60 - 130%	106
	BH16-1	SE131674.011	%	60 - 130%	112
	BH17-1	SE131674.013	%	60 - 130%	100
	BH18-1	SE131674.015	%	60 - 130%	100
	BH19-1	SE131674.016	%	60 - 130%	120
	BH21-1	SE131674.018	%	60 - 130%	118
	BH22-1	SE131674.020	%	60 - 130%	102
	BH23-1	SE131674.021	%	60 - 130%	106

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH7-1	SE131674.001	%	70 - 130%	90
	BH8-1	SE131674.002	%	70 - 130%	92
	BH9-1	SE131674.003	%	70 - 130%	96
	BH10-1	SE131674.004	%	70 - 130%	94
	BH11-1	SE131674.005	%	70 - 130%	92
	BH12-1	SE131674.006	%	70 - 130%	86
	BH14-1	SE131674.007	%	70 - 130%	92
	BH14-2	SE131674.008	%	70 - 130%	88
	BH15-1	SE131674.009	%	70 - 130%	84
	BH15-2	SE131674.010	%	70 - 130%	84
	BH16-1	SE131674.011	%	70 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH16-2	SE131674.012	%	70 - 130%	92
	BH17-1	SE131674.013	%	70 - 130%	90
	BH17-2	SE131674.014	%	70 - 130%	88
	BH18-1	SE131674.015	%	70 - 130%	90
	BH19-1	SE131674.016	%	70 - 130%	80
	BH19-2	SE131674.017	%	70 - 130%	82
	BH21-1	SE131674.018	%	70 - 130%	104
	BH21-2	SE131674.019	%	70 - 130%	86
	BH22-1	SE131674.020	%	70 - 130%	92
	BH23-1	SE131674.021	%	70 - 130%	84
d14-p-terphenyl (Surrogate)	BH7-1	SE131674.001	%	70 - 130%	112
	BH8-1	SE131674.002	%	70 - 130%	108
	BH9-1	SE131674.003	%	70 - 130%	108
	BH10-1	SE131674.004	%	70 - 130%	106
	BH11-1	SE131674.005	%	70 - 130%	106
	BH12-1	SE131674.006	%	70 - 130%	104
	BH14-1	SE131674.007	%	70 - 130%	96
	BH14-2	SE131674.008	%	70 - 130%	110
	BH15-1	SE131674.009	%	70 - 130%	106
	BH15-2	SE131674.010	%	70 - 130%	110
	BH16-1	SE131674.011	%	70 - 130%	112
	BH16-2	SE131674.012	%	70 - 130%	106
	BH17-1	SE131674.013	%	70 - 130%	100
	BH17-2	SE131674.014	%	70 - 130%	108
	BH18-1	SE131674.015	%	70 - 130%	100
	BH19-1	SE131674.016	%	70 - 130%	120
	BH19-2	SE131674.017	%	70 - 130%	88
	BH21-1	SE131674.018	%	70 - 130%	118
	BH21-2	SE131674.019	%	70 - 130%	98
	BH22-1	SE131674.020	%	70 - 130%	102
	BH23-1	SE131674.021	%	70 - 130%	106
d5-nitrobenzene (Surrogate)	BH7-1	SE131674.001	%	70 - 130%	92
	BH8-1	SE131674.002	%	70 - 130%	92
	BH9-1	SE131674.003	%	70 - 130%	98
	BH10-1	SE131674.004	%	70 - 130%	96
	BH11-1	SE131674.005	%	70 - 130%	94
	BH12-1	SE131674.006	%	70 - 130%	84
	BH14-1	SE131674.007	%	70 - 130%	92
	BH14-2	SE131674.008	%	70 - 130%	96
	BH15-1	SE131674.009	%	70 - 130%	90
	BH15-2	SE131674.010	%	70 - 130%	88
	BH16-1	SE131674.011	%	70 - 130%	88
	BH16-2	SE131674.012	%	70 - 130%	110
	BH17-1	SE131674.013	%	70 - 130%	88
	BH17-2	SE131674.014	%	70 - 130%	92
	BH18-1	SE131674.015	%	70 - 130%	86
	BH19-1	SE131674.016	%	70 - 130%	80
	BH19-2	SE131674.017	%	70 - 130%	88
	BH21-1	SE131674.018	%	70 - 130%	112
	BH21-2	SE131674.019	%	70 - 130%	82
	BH22-1	SE131674.020	%	70 - 130%	90
	BH23-1	SE131674.021	%	70 - 130%	92

PCBs in Soil

Method: ME-(AU)-[ENV]AN400/AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	100
	BH8-1	SE131674.002	%	60 - 130%	103
	BH9-1	SE131674.003	%	60 - 130%	109
	BH10-1	SE131674.004	%	60 - 130%	102
	BH11-1	SE131674.005	%	60 - 130%	103
	BH12-1	SE131674.006	%	60 - 130%	99

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN400/AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH14-1	SE131674.007	%	60 - 130%	95
	BH15-1	SE131674.009	%	60 - 130%	98
	BH16-1	SE131674.011	%	60 - 130%	83
	BH17-1	SE131674.013	%	60 - 130%	99
	BH18-1	SE131674.015	%	60 - 130%	99
	BH19-1	SE131674.016	%	60 - 130%	77
	BH21-1	SE131674.018	%	60 - 130%	103
	BH22-1	SE131674.020	%	60 - 130%	99
	BH23-1	SE131674.021	%	60 - 130%	99

VOC's in Soil

Method: ME-(AU)-[ENV]AN433/AN434

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	83
	BH8-1	SE131674.002	%	60 - 130%	110
	BH9-1	SE131674.003	%	60 - 130%	94
	BH10-1	SE131674.004	%	60 - 130%	78
	BH11-1	SE131674.005	%	60 - 130%	83
	BH12-1	SE131674.006	%	60 - 130%	85
	BH14-1	SE131674.007	%	60 - 130%	87
	BH14-2	SE131674.008	%	60 - 130%	81
	BH15-1	SE131674.009	%	60 - 130%	92
	BH15-2	SE131674.010	%	60 - 130%	82
	BH16-1	SE131674.011	%	60 - 130%	101
	BH16-2	SE131674.012	%	60 - 130%	114
	BH17-1	SE131674.013	%	60 - 130%	93
	BH17-2	SE131674.014	%	60 - 130%	120
	BH18-1	SE131674.015	%	60 - 130%	85
	BH19-1	SE131674.016	%	60 - 130%	101
	BH19-2	SE131674.017	%	60 - 130%	91
	BH21-1	SE131674.018	%	60 - 130%	87
	BH21-2	SE131674.019	%	60 - 130%	110
	BH22-1	SE131674.020	%	60 - 130%	81
	BH23-1	SE131674.021	%	60 - 130%	91
	B1	SE131674.022	%	60 - 130%	96
	TB	SE131674.023	%	60 - 130%	116
d4-1,2-dichloroethane (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	99
	BH8-1	SE131674.002	%	60 - 130%	129
	BH9-1	SE131674.003	%	60 - 130%	111
	BH10-1	SE131674.004	%	60 - 130%	100
	BH11-1	SE131674.005	%	60 - 130%	100
	BH12-1	SE131674.006	%	60 - 130%	110
	BH14-1	SE131674.007	%	60 - 130%	107
	BH14-2	SE131674.008	%	60 - 130%	95
	BH15-1	SE131674.009	%	60 - 130%	104
	BH15-2	SE131674.010	%	60 - 130%	104
	BH16-1	SE131674.011	%	60 - 130%	119
	BH16-2	SE131674.012	%	60 - 130%	91
	BH17-1	SE131674.013	%	60 - 130%	90
	BH17-2	SE131674.014	%	60 - 130%	122
	BH18-1	SE131674.015	%	60 - 130%	88
	BH19-1	SE131674.016	%	60 - 130%	97
	BH19-2	SE131674.017	%	60 - 130%	96
	BH21-1	SE131674.018	%	60 - 130%	88
	BH21-2	SE131674.019	%	60 - 130%	108
	BH22-1	SE131674.020	%	60 - 130%	92
	BH23-1	SE131674.021	%	60 - 130%	87
	B1	SE131674.022	%	60 - 130%	79
	TB	SE131674.023	%	60 - 130%	98
d8-toluene (Surrogate)	BH7-1	SE131674.001	%	60 - 130%	75
	BH8-1	SE131674.002	%	60 - 130%	107
	BH9-1	SE131674.003	%	60 - 130%	91