



Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Brendan Page

Sample log in details:

Your reference:
Envirolab Reference:
Date received:
Date results expected to be reported:

E24125K, Pyrmont
43817
22/07/2010
29/07/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	5 Waters
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice

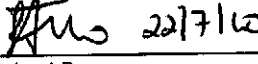
Comments:

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

TBT results ready approx 15 working days

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

TO: EnviroLab Services Pty Ltd 12 Ashley St, Chatswood 2067 Phone: (02) 9910 6200 Fax: (02) 9910 6201 Attention: Aileen Date Results Required: Standard							SAMPLE AND CHAIN OF CUSTODY FORM							FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page															
							EIS Job Number: E24125K							Sheet 1 / 1															
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP														Tests Required														Sample Preservation: In esky on ice	
Date Sampled	Time Sampled	Location	Sample/Borehole Number	Sample Container	PID (ppm/Odour)	Sample Description	Heavy metals	TPH	VOCs	PAHs (low level)	Cyanide		TBT	BTEX		Comments/Detection Limits Required													
22/7/10	10am - 12pm	1	SW A	3 x 1L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle	—	Water	X	X	X	X	X						 EnviroLab Services Pty Ltd 12 Ashley St Chatswood NSW 2067 Ph: 9910 6200 Job No: 43817 Date received: 22/7/10 Time received: 3pm Received by: JMC Temp: Cool/Ambient Cooling: Ice/Icepack Security: Intact/Broken/None												
		2	SW B	3 x 1L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle	—	Water	X	X	X	X	X		X																
		3	SW C	3 x 1L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle	—	Water	X	X	X	X	X		X																
		4	SW Dup	3 x 1L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle	—	Water	X	X	X	X	X																		
✓	✓	5	SW Trip Spike	1 x BTEX Vial		Water								X															
Relinquished By: 			Date: 22/7/10 Time: 230pm			Received By: 			Remarks: All analysis PQLs to ANZECC (2000) Detection Limits Please																				
Relinquished By:			Date: Time:			Received By:																							



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CERTIFICATE OF ANALYSIS 43818

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:	<u>E24125K, Pyrmont</u>
No. of samples:	5 Soils
Date samples received:	22/07/2010
Date completed instructions received:	22/07/2010

Analysis Details:

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

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	29/07/10
Date of Preliminary Report:	Not Issued
Issue Date:	6/08/10

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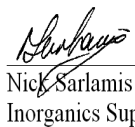
This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

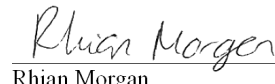
Tests not covered by NATA are denoted with *.

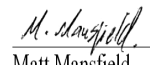
Results Approved By:


Jacinta Hurst
Laboratory Manager


Nick Sarlamis
Inorganics Supervisor


Sandra Taylor
Senior Organic Chemist


Rhian Morgan
Metals Supervisor


Matt Mansfield
Approved Signatory

Envirolab Reference: 43818
Revision No: R 00



vTPH & BTEX in Soil						
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4	43818-5
Your Reference	-----	SSA	SSB	SSC	SS Dup	SS Trip Spike
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	93%
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	85%
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	84%
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	84%
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	84%
Surrogate aaa-Trifluorotoluene	%	102	95	106	96	96

sTPH in Soil (C10-C36)					
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4
Your Reference	-----	SSA	SSB	SSC	SS Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
TPH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50
TPH C ₁₅ - C ₂₈	mg/kg	560	560	210	360
TPH C ₂₉ - C ₃₆	mg/kg	600	700	340	420
Surrogate o-Terphenyl	%	#	#	#	#

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43818-1 SSA 22/07/2010 Soil	43818-2 SSB 22/07/2010 Soil	43818-3 SSC 22/07/2010 Soil	43818-4 SS Dup 22/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Naphthalene	mg/kg	<0.1	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	0.1	0.1	0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.4	0.6	0.5	0.5
Anthracene	mg/kg	0.2	0.2	0.1	0.1
Fluoranthene	mg/kg	1.2	1.5	1.0	1.4
Pyrene	mg/kg	1.7	2.8	1.2	2.0
Benzo(a)anthracene	mg/kg	0.8	0.9	0.6	0.9
Chrysene	mg/kg	0.6	0.8	0.5	0.8
Benzo(b+k)fluoranthene	mg/kg	2.5	2.8	1.5	2.6
Benzo(a)pyrene	mg/kg	1.8	2.0	1.1	2.0
Indeno(1,2,3-c,d)pyrene	mg/kg	1.2	1.2	0.7	1.2
Dibenzo(a,h)anthracene	mg/kg	0.2	0.2	0.1	0.2
Benzo(g,h,i)perylene	mg/kg	1.1	1.1	0.7	1.1
Surrogate p- Terphenyl-d ₁₄	%	105	104	103	103

Organochlorine Pesticides in soil					
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4
Your Reference	-----	SSA	SSB	SSC	SS Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	83	81	79

Organophosphorus Pesticides					
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4
Your Reference	-----	SSA	SSB	SSC	SS Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	83	81	79

PCBs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43818-1 SSA 22/07/2010 Soil	43818-2 SSB 22/07/2010 Soil	43818-3 SSC 22/07/2010 Soil	43818-4 SS Dup 22/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	83	81	79

Acid Extractable metals in soil					
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4
Your Reference	-----	SSA	SSB	SSC	SS Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	11	10	5	10
Cadmium	mg/kg	0.9	0.9	<0.5	0.5
Chromium	mg/kg	29	32	18	35
Copper	mg/kg	260	150	130	190
Lead	mg/kg	260	220	150	210
Mercury	mg/kg	1	1.3	0.3	0.8
Nickel	mg/kg	19	27	11	23
Zinc	mg/kg	690	460	310	590

Miscellaneous Inorg - soil					
Our Reference:	UNITS	43818-1	43818-2	43818-3	43818-4
Your Reference	-----	SSA	SSB	SSC	SS Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Date analysed	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Total Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43818-1 SSA 22/07/2010 Soil	43818-2 SSB 22/07/2010 Soil	43818-3 SSC 22/07/2010 Soil	43818-4 SS Dup 22/07/2010 Soil	43818-5 SS Trip Spike 22/07/2010 Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	40	45	27	32	[NT]

sPOCAS Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43818-1 SSA 22/07/2010 Soil	43818-2 SSB 22/07/2010 Soil	43818-3 SSC 22/07/2010 Soil
Date prepared	-	26/7/2010	26/7/2010	26/7/2010
Date analysed	-	26/7/2010	26/7/2010	26/7/2010
pH _{KCl}	pH units	8.9	8.8	8.7
TAA pH 6.5	moles H ⁺ /t	<5	<5	<5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01
pH _{0x}	pH units	7.2	4.2	2.9
TPA pH 6.5	moles H ⁺ /t	<5.0	92	185
s-TPA pH 6.5	%w/w S	<0.01	0.15	0.30
TSA pH 6.5	moles H ⁺ /t	<5.0	92	185
s-TSA pH 6.5	%w/w S	<0.01	0.15	0.30
ANCE	% CaCO ₃	1.0	<0.05	<0.05
a-ANCE	moles H ⁺ /t	200	<5	<5
s-ANCE	%w/w S	0.32	<0.05	<0.05
SKCl	%w/w S	0.14	0.15	0.084
SP	%w/w	1.1	1.4	0.81
SPOS	%w/w	0.93	1.2	0.72
a-SPOS	moles H ⁺ /t	581	770	450
CaKCl	%w/w	0.20	0.21	0.13
CaP	%w/w	1.0	0.87	0.27
CaA	%w/w	0.81	0.66	0.14
MgKCl	%w/w	0.079	0.083	0.055
MgP	%w/w	0.20	0.24	0.14
MgA	%w/w	0.12	0.15	0.082
SRAS	%w/w	<0.005	<0.005	<0.005
SHCl	%w/w S	0.12	0.13	0.068
SNAS	%w/w S	<0.005	<0.005	<0.005
a-SNAS	moles H ⁺ /t	<5	<5	<5
s-SNAS	%w/w S	<0.01	<0.01	<0.01
a-Net Acidity	moles H ⁺ /t	60	318	273
Liming rate	kg CaCO ₃ /t	4.5	24	21
a-Net Acidity without ANCE	moles H ⁺ /t	581	NA	NA
Liming rate without ANCE	kg CaCO ₃ /t	44	NA	NA

Organotin Compounds				
Our Reference:	UNITS	43818-1	43818-2	43818-3
Your Reference	-----	SSA	SSB	SSC
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010
Type of sample		Soil	Soil	Soil
Monobutyltin	ng/g	0.81	<0.50	0.91
Dibutyltin	ng/g	62	6.6	11
Tributyltin	ng/g	230	45	23
Surrogate (Tripropyltin)	%	130	120	130

Method ID	Methodology Summary
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC.8	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC-6	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.13	Cyanide - total determined colourimetrically after distillation. Free cyanide determined colourimetrically after filtration. Based on APHA 20th ED, 4500-CN_C,E.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
LAB.64	sPOCAS determined using titrimetric and ICP-AES techniques. Based on Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004.
Ext-020	Analysis subcontracted to Australian Government - National Measurement Institute. NATA Accreditation No: 198

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-4	23/7/2010
Date analysed	-			23/7/2010	[NT]	[NT]	LCS-4	23/7/2010
vTPH C ₆ - C ₉	mg/kg	25	GC.16	<25	[NT]	[NT]	LCS-4	101%
Benzene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-4	110%
Toluene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-4	100%
Ethylbenzene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-4	95%
m+p-xylene	mg/kg	2	GC.16	<2.0	[NT]	[NT]	LCS-4	100%
o-Xylene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-4	100%
Surrogate aaa-Trifluorotoluene	%		GC.16	121	[NT]	[NT]	LCS-4	114%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C ₁₀ -C ₃₆)						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-5	23/7/2010
Date analysed	-			23/7/2010	[NT]	[NT]	LCS-5	23/7/2010
TPH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	[NT]	[NT]	LCS-5	84%
TPH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-5	91%
TPH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-5	93%
Surrogate o-Terphenyl	%		GC.3	108	[NT]	[NT]	LCS-5	119%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-5	23/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-5	24/7/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	100%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	103%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	104%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	98%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	105%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-5	109%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	[NT]	[NT]	LCS-5	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	88	[NT]	[NT]	LCS-5	103%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-4	23/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-4	24/7/2010
HCB	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	98%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	104%
Heptachlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	75%
delta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	99%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	109%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	119%
Dieldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	102%
Endrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	94%
pp-DDD	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	111%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-4	96%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-5	83	[NT]	[NT]	LCS-4	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-4	23/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-4	24/7/2010
Diazinon	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-4	111%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-4	100%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-4	106%
Surrogate TCLMX	%		GC.8	83	[NT]	[NT]	LCS-4	85%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-4	23/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-4	24/7/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	LCS-4	130%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-6	83	[NT]	[NT]	LCS-4	106%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			23/07/2010	[NT]	[NT]	LCS-2	23/07/2010
Date analysed	-			23/07/2010	[NT]	[NT]	LCS-2	23/07/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	[NT]	[NT]	LCS-2	93%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	[NT]	[NT]	LCS-2	96%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	98%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	96%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Lead	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	94%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	[NT]	[NT]	LCS-2	101%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	97%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	98%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorg - soil						Base II Duplicate II %RPD		
Date prepared	-			26/7/2010	[NT]	[NT]	LCS-1	26/7/2010
Date analysed	-			26/7/2010	[NT]	[NT]	LCS-1	26/7/2010
Total Cyanide	mg/kg	0.5	LAB.13	<0.5	[NT]	[NT]	LCS-1	97%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			23/7/2010
Date analysed	-			23/7/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sPOCAS						Base II Duplicate II %RPD		
Date prepared	-			[NT]	43818-1	26/7/2010 26/7/2010	LCS	26/7/2010
Date analysed	-			[NT]	43818-1	26/7/2010 26/7/2010	LCS	26/7/2010
pH _{kcl}	pH units		LAB.64	5.8	43818-1	8.9 8.9 RPD: 0	LCS	102%
TAA pH 6.5	moles H ⁺ /t	5	LAB.64	<5	43818-1	<5 <5	LCS	110%
s-TAA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43818-1	<0.01 <0.01	LCS	107%
pH _{ox}	pH units		LAB.64	4.3	43818-1	7.2 6.9 RPD: 4	LCS	101%
TPA pH 6.5	moles H ⁺ /t	5	LAB.64	<5.0	43818-1	<5.0 <5.0	LCS	103%
s-TPA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43818-1	<0.01 <0.01	LCS	103%
TSA pH 6.5	moles H ⁺ /t	5	LAB.64	<5.0	43818-1	<5.0 <5.0	LCS	102%
s-TSA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43818-1	<0.01 <0.01	LCS	101%
ANCE	% CaCO ₃	0.05	LAB.64	<0.05	43818-1	1.0 1.1 RPD: 10	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sPOCAS						Base II Duplicate II %RPD		
a-ANCE	moles H ⁺ /t	5	LAB.64	<5	43818-1	200 225 RPD: 12	[NR]	[NR]
s-ANCE	%w/w S	0.05	LAB.64	<0.05	43818-1	0.32 0.36 RPD: 12	[NR]	[NR]
SKCl	%w/w S	0.005	LAB.64	<0.005	43818-1	0.14 0.13 RPD: 7	LCS	110%
SP	%w/w	0.005	LAB.64	<0.005	43818-1	1.1 0.98 RPD: 12	LCS	103%
SPOS	%w/w	0.005	LAB.64	<0.005	43818-1	0.93 0.85 RPD: 9	LCS	100%
a-SPOS	moles H ⁺ /t	5	LAB.64	<5.0	43818-1	581 530 RPD: 9	LCS	101%
CaKCl	%w/w	0.005	LAB.64	<0.005	43818-1	0.20 0.19 RPD: 5	LCS	92%
CaP	%w/w	0.005	LAB.64	<0.005	43818-1	1.0 0.94 RPD: 6	LCS	80%
CaA	%w/w	0.005	LAB.64	<0.005	43818-1	0.81 0.75 RPD: 8	[NR]	[NR]
MgKCl	%w/w	0.005	LAB.64	<0.005	43818-1	0.079 0.075 RPD: 5	LCS	90%
MgP	%w/w	0.005	LAB.64	<0.005	43818-1	0.20 0.19 RPD: 5	LCS	97%
MgA	%w/w	0.005	LAB.64	<0.005	43818-1	0.12 0.11 RPD: 9	[NR]	[NR]
SRAS	%w/w	0.005	LAB.64	<0.005	43818-1	<0.005 <0.005	[NR]	[NR]
SHCl	%w/w S	0.005	LAB.64	<0.005	43818-1	0.12 0.13 RPD: 8	LCS	93%
SNAS	%w/w S	0.005	LAB.64	<0.005	43818-1	<0.005 <0.005	[NR]	[NR]
a-SNAS	moles H ⁺ /t	5	LAB.64	<5	43818-1	<5 <5	[NR]	[NR]
s-SNAS	%w/w S	0.01	LAB.64	<0.01	43818-1	<0.01 <0.01	[NR]	[NR]
a-Net Acidity	moles H ⁺ /t	10	LAB.64	<10	43818-1	60 27 RPD: 76	LCS	100%
Liming rate	kg CaCO ₃ /t	0.75	LAB.64	<0.75	43818-1	4.5 2.0 RPD: 77	LCS	100%
a-Net Acidity without ANCE	moles H ⁺ /t	10	LAB.64	<10	43818-1	581 530 RPD: 9	[NR]	[NR]
Liming rate without ANCE	kg CaCO ₃ /t	0.75	LAB.64	<0.75	43818-1	44 40 RPD: 10	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organotin Compounds						Base II Duplicate II %RPD		
Monobutyltin	ng/g	0.5	Ext-020	<0.50	[NT]	[NT]	LCS-1	55%
Dibutyltin	ng/g	0.5	Ext-020	<0.50	[NT]	[NT]	LCS-1	57%
Tributyltin	ng/g	0.5	Ext-020	<0.50	[NT]	[NT]	LCS-1	65%
Surrogate (Tripropyltin)	%		Ext-020	[NT]	[NT]	[NT]	LCS-1	64%

Report Comments:

Total Petroleum Hydrocarbons in soil: # Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Organotins in soil analysed by NMI. Report No. RN808630.

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

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

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

Quality Control Definitions

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

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

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

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

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

Laboratory Acceptance Criteria:

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for



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 Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Brendan Page

Sample log in details:

Your reference:
Envirolab Reference:
Date received:
Date results expected to be reported:

E24125K, Pyrmont
43818
22/07/2010
29/07/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	5 Soils
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice

Comments:

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

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

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

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

Attention: Aileen

Date Results Required: Standard

SAMPLE AND CHAIN OF CUSTODY FORM

EIS Job Number: E24125K

Sheet 1 / 1

FROM:
Environmental Investigation Services

Rear 115 Wicks Road
Macquarie Park NSW 2113

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

Contact: Brendan Page

Project: Proposed Redevelopment

Location: Pyrmont

Sampler: BP

Tests Required

Sample Preservation:
In esky on ice

Date Sampled	Time Sampled	Location	Sample/ Borehole Number	Sample Container	PID (ppm/ Odour)	Sample Description	Heavy metals	TPH/BTEX	PAHs	OC/OP/PCB	Cyanide	TBT	BTEX	SPOCAS	Comments/Detection Limits Required
22/7/10	10am - 10pm	1	SS A	2 x glass jar 1 x plastic bag	—	Sediment	X	X	X	X	X	X		X	 Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph: 9910 6200 Job No: 43818 Date received: 22/7/10 Time received: 3pm Received by: JMC Temp: Cool/Ambient Cooling: Ice/Insulated Security: Intact/Broken/None
		2	SS B	2 x glass jar 1 x plastic bag	—	Sediment	X	X	X	X	X	X		X	
		3	SS C	2 x glass jar 1 x plastic bag	—	Sediment	X	X	X	X	X	X		X	
		4	SS Dup	2 x glass jar 1 x plastic bag	—	Sediment	X	X	X	X	X				
		5	SS Trip spike	1 x glass jar	—	Sand							X		

Relinquished By:

Date: 22/7/10

Received By:

Relinquished By:

Date:

Received By:

Remarks:

All analysis PQLs to ANZECC (2000) Detection Limits Please



Envirolab Services Pty Ltd
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CERTIFICATE OF ANALYSIS 44007

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:	<u>E24125K, Pyrmont</u>
No. of samples:	6 Waters
Date samples received:	27/07/10
Date completed instructions received:	27/07/10

Analysis Details:

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

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	3/08/10
Date of Preliminary Report:	Not issued
Issue Date:	3/08/10

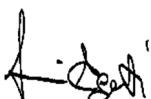
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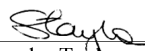
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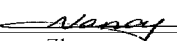
Tests not covered by NATA are denoted with *.

Results Approved By:


Giovanni Agosti
Technical Manager


Sandra Taylor
Senior Organic Chemist


Jacinta Hurst
Laboratory Manager


Nancy Zhang
Chemist

Envirolab Reference: 44007
Revision No: R 00



VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	44007-1 MW605 27/07/2010 Water	44007-2 MW606 27/07/2010 Water	44007-3 MW608 27/07/2010 Water	44007-4 GW Dup 1 27/07/2010 Water
Date extracted	-	31/07/2010	31/07/2010	31/07/2010	31/07/2010
Date analysed	-	31/07/2010	31/07/2010	31/07/2010	31/07/2010
Dichlorodifluoromethane	µg/L	<10	<200	<200	<200
Chloromethane	µg/L	<10	<200	<200	<200
Vinyl Chloride	µg/L	<10	<200	<200	<200
Bromomethane	µg/L	<10	<200	<200	<200
Chloroethane	µg/L	<10	<200	<200	<200
Trichlorofluoromethane	µg/L	<10	<200	<200	<200
1,1-Dichloroethene	µg/L	<1.0	<20	<20	<20
Trans-1,2-dichloroethene	µg/L	<1.0	<20	<20	<20
1,1-dichloroethane	µg/L	<1.0	<20	<20	<20
Cis-1,2-dichloroethene	µg/L	<1.0	<20	<20	<20
Bromochloromethane	µg/L	<1.0	<20	<20	<20
Chloroform	µg/L	<1.0	<20	<20	<20
2,2-dichloropropane	µg/L	<1.0	<20	<20	<20
1,2-dichloroethane	µg/L	<1.0	<20	<20	<20
1,1,1-trichloroethane	µg/L	<1.0	<20	<20	<20
1,1-dichloropropene	µg/L	<1.0	<20	<20	<20
Cyclohexane	µg/L	<1.0	<20	<20	<20
Carbon tetrachloride	µg/L	<1.0	<20	<20	<20
Benzene	µg/L	<1.0	<20	<20	<20
Dibromomethane	µg/L	<1.0	<20	<20	<20
1,2-dichloropropane	µg/L	<1.0	<20	<20	<20
Trichloroethene	µg/L	<1.0	<20	<20	<20
Bromodichloromethane	µg/L	<1.0	<20	<20	<20
trans-1,3-dichloropropene	µg/L	<1.0	<20	<20	<20
cis-1,3-dichloropropene	µg/L	<1.0	<20	<20	<20
1,1,2-trichloroethane	µg/L	<1.0	<20	<20	<20
Toluene	µg/L	<1.0	<20	<20	<20
1,3-dichloropropane	µg/L	<1.0	<20	<20	<20
Dibromochloromethane	µg/L	<1.0	<20	<20	<20
1,2-dibromoethane	µg/L	<1.0	<20	<20	<20
Tetrachloroethene	µg/L	<1.0	<20	<20	<20
1,1,1,2-tetrachloroethane	µg/L	<1.0	<20	<20	<20
Chlorobenzene	µg/L	<1.0	<20	<20	<20
Ethylbenzene	µg/L	<1.0	<20	<20	<20
Bromoform	µg/L	<1.0	<20	<20	<20
m+p-xylene	µg/L	<2.0	<40	<40	<40
Styrene	µg/L	<1.0	<20	<20	<20
1,1,2,2-tetrachloroethane	µg/L	<1.0	<20	<20	<20

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	44007-1 MW605 27/07/2010 Water	44007-2 MW606 27/07/2010 Water	44007-3 MW608 27/07/2010 Water	44007-4 GW Dup 1 27/07/2010 Water
o-xylene	µg/L	<1.0	<20	<20	<20
1,2,3-trichloropropane	µg/L	<1.0	<20	<20	<20
Isopropylbenzene	µg/L	3.3	<20	<20	<20
Bromobenzene	µg/L	<1.0	<20	<20	<20
n-propyl benzene	µg/L	1.3	<20	<20	<20
2-chlorotoluene	µg/L	<1.0	<20	<20	<20
4-chlorotoluene	µg/L	<1.0	<20	<20	<20
1,3,5-trimethyl benzene	µg/L	<1.0	<20	<20	<20
Tert-butyl benzene	µg/L	<1.0	<20	<20	<20
1,2,4-trimethyl benzene	µg/L	<1.0	<20	<20	<20
1,3-dichlorobenzene	µg/L	<1.0	<20	<20	<20
Sec-butyl benzene	µg/L	<1.0	<20	<20	<20
1,4-dichlorobenzene	µg/L	<1.0	<20	<20	<20
4-isopropyl toluene	µg/L	<1.0	<20	<20	<20
1,2-dichlorobenzene	µg/L	<1.0	<20	<20	<20
n-butyl benzene	µg/L	<1.0	<20	<20	<20
1,2-dibromo-3-chloropropane	µg/L	<1.0	<20	<20	<20
1,2,4-trichlorobenzene	µg/L	<1.0	<20	<20	<20
Hexachlorobutadiene	µg/L	<1.0	<20	<20	<20
1,2,3-trichlorobenzene	µg/L	<1.0	<20	<20	<20
Surrogate Dibromofluoromethane	%	99	103	102	101
Surrogate toluene-d8	%	97	107	106	111
Surrogate 4-BFB	%	97	95	93	93

vTPH & BTEX in Water	UNITS	44007-1	44007-2	44007-3	44007-4	44007-5
Our Reference:	-----	MW605	MW606	MW608	GW Dup 1	GW Trip Blank
Your Reference	-----	27/07/2010	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Date Sampled						
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	30/07/2010	30/07/2010	30/07/2010	30/07/2010	30/07/2010
Date analysed	-	30/07/2010	30/07/2010	30/07/2010	30/07/2010	30/07/2010
TPH C ₆ - C ₉	µg/L	<10	<200	<200	<200	[NA]
Benzene	µg/L	[NA]	[NA]	[NA]	[NA]	<1.0
Toluene	µg/L	[NA]	[NA]	[NA]	[NA]	<1.0
Ethylbenzene	µg/L	[NA]	[NA]	[NA]	[NA]	<1.0
m+p-xylene	µg/L	[NA]	[NA]	[NA]	[NA]	<2.0
o-xylene	µg/L	[NA]	[NA]	[NA]	[NA]	<1.0
Surrogate Dibromofluoromethane	%	99	103	102	101	99
Surrogate toluene-d8	%	97	107	106	111	102
Surrogate 4-BFB	%	97	95	93	93	94

vTPH & BTEX in Water	UNITS	44007-6
Our Reference:	-----	GW Trip Spike
Your Reference	-----	27/07/2010
Date Sampled		
Type of sample		Water
Date extracted	-	30/07/2010
Date analysed	-	30/07/2010
Benzene	µg/L	116%
Toluene	µg/L	119%
Ethylbenzene	µg/L	122%
m+p-xylene	µg/L	117%
o-xylene	µg/L	121%
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	100
Surrogate 4-BFB	%	100

sTPH in Water (C10-C36)					
Our Reference:	UNITS	44007-1	44007-2	44007-3	44007-4
Your Reference	-----	MW605	MW606	MW608	GW Dup 1
Date Sampled	-----	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Type of sample		Water	Water	Water	Water
Date extracted	-	28/07/2010	28/07/2010	28/07/2010	28/07/2010
Date analysed	-	28/07/2010	28/07/2010	28/07/2010	28/07/2010
TPH C ₁₀ - C ₁₄	µg/L	60	410	58	<50
TPH C ₁₅ - C ₂₈	µg/L	350	740	450	310
TPH C ₂₉ - C ₃₆	µg/L	<100	<100	130	<100
Surrogate o-Terphenyl	%	#	#	#	#

PAHs in Water - Low Level					
Our Reference:	UNITS	44007-1	44007-2	44007-3	44007-4
Your Reference	-----	MW605	MW606	MW608	GW Dup 1
Date Sampled	-----	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Type of sample		Water	Water	Water	Water
Date extracted	-	28/07/20100	28/07/20100	28/07/20100	28/07/20100
Date analysed	-	28/07/20100	28/07/20100	28/07/20100	28/07/20100
Naphthalene	µg/L	0.1	0.8	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	0.3	<0.1	<0.1
Acenaphthene	µg/L	1.9	2.3	<0.1	<0.1
Fluorene	µg/L	1.4	2.7	<0.1	<0.1
Phenanthrene	µg/L	1.6	0.8	<0.1	<0.1
Anthracene	µg/L	0.2	0.3	<0.1	<0.1
Fluoranthene	µg/L	0.1	0.4	<0.1	<0.1
Pyrene	µg/L	<0.1	0.3	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d ₁₄	%	72	60	95	77

HM in water - dissolved					
Our Reference:	UNITS	44007-1	44007-2	44007-3	44007-4
Your Reference	-----	MW605	MW606	MW608	GW Dup 1
Date Sampled	-----	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Type of sample		Water	Water	Water	Water
Date prepared	-	30/07/2010	30/07/2010	30/07/2010	30/07/2010
Date analysed	-	30/07/2010	30/07/2010	30/07/2010	30/07/2010
Arsenic-Dissolved	µg/L	4	4	3	3
Cadmium-Dissolved	µg/L	<0.1	<0.1	0.4	0.4
Chromium-Dissolved	µg/L	<1	<1	2	2
Copper-Dissolved	µg/L	<1	<1	57	64
Lead-Dissolved	µg/L	<1	<1	8	9
Mercury-Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5
Nickel-Dissolved	µg/L	<1	6	22	24
Zinc-Dissolved	µg/L	12	30	170	170

Miscellaneous Inorganics					
Our Reference:	UNITS	44007-1	44007-2	44007-3	44007-4
Your Reference	-----	MW605	MW606	MW608	GW Dup 1
Date Sampled	-----	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Type of sample		Water	Water	Water	Water
Date prepared	-	29/07/2010	29/07/2010	29/07/2010	29/07/2010
Date analysed	-	29/07/2010	29/07/2010	29/07/2010	29/07/2010
pH	pH Units	7.0	6.9	5.7	[NA]
Electrical Conductivity	µS/cm	1,200	1,800	8,900	[NA]
Total Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005
Oil & Grease (LLE)	mg/L	<5	<5	<5	<5
Hardness	mgCaCO3 /L	387	503	1,346	[NA]
Calcium - Dissolved	mg/L	70	120	110	[NA]
Magnesium - Dissolved	mg/L	51	51	260	[NA]

Method ID	Methodology Summary
GC.13	Water samples are analysed directly by purge and trap GC-MS.
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals.22 ICP-MS	Determination of various metals by ICP-MS.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
LAB.2	Conductivity and Salinity - measured using a conductivity cell and dedicated meter, in accordance with APHA2510 20th ED and Rayment & Higginson.
LAB.13	Cyanide - total determined colourimetrically after distillation. Free cyanide determined colourimetrically after filtration. Based on APHA 20th ED, 4500-CN_C,E.
LAB.3	Oil & Grease - determine gravimetrically following extraction with Hexane/tert-Methyl Butyl Ether, in accordance with APHA 20th ED, 5220-B.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
Date extracted	-			31/07/2010	[NT]	[NT]	LCS-W1	31/07/2010
Date analysed	-			31/07/2010	[NT]	[NT]	LCS-W1	31/07/2010
Dichlorodifluoromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Chloromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Bromomethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Chloroethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Trans-1,2-dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	101%
Cis-1,2-dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Chloroform	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	98%
2,2-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	100%
1,1,1-trichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	98%
1,1-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Cyclohexane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Dibromomethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Trichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	110%
Bromodichloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	89%
trans-1,3-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	86%
1,2-dibromoethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	97%
1,1,1,2-tetrachloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromoform	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
m+p-xylene	µg/L	2	GC.13	<2.0	[NT]	[NT]	[NR]	[NR]
Styrene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
1,1,2,2-tetrachloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
o-xylene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Tert-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Sec-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Surrogate	%		GC.13	95	[NT]	[NT]	LCS-W1	97%
Dibromofluoromethane								
Surrogate toluene-d8	%		GC.13	105	[NT]	[NT]	LCS-W1	98%
Surrogate 4-BFB	%		GC.13	98	[NT]	[NT]	LCS-W1	93%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
Date analysed	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
TPH C ₆ - C ₉	µg/L	10	GC.16	<10	[NT]	[NT]	LCS-W1	110%
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	103%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	112%
Ethylbenzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	111%
m+p-xylene	µg/L	2	GC.16	<2.0	[NT]	[NT]	LCS-W1	113%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	113%
Surrogate	%		GC.16	82	[NT]	[NT]	LCS-W1	96%
Dibromofluoromethane								
Surrogate toluene-d8	%		GC.16	88	[NT]	[NT]	LCS-W1	99%
Surrogate 4-BFB	%		GC.16	88	[NT]	[NT]	LCS-W1	102%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			28/07/2010	[NT]	[NT]	LCS-W1	28/07/2010
Date analysed	-			28/07/2010	[NT]	[NT]	LCS-W1	28/07/2010
TPH C ₁₀ - C ₁₄	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W1	78%
TPH C ₁₅ - C ₂₈	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	122%
TPH C ₂₉ - C ₃₆	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	112%
Surrogate	%		GC.3	115	[NT]	[NT]	LCS-W1	128%
o-Terphenyl								

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water - Low Level						Base II Duplicate II %RPD		
Date extracted	-			28/07/2010	[NT]	[NT]	LCS-W1	28/07/2010
Date analysed	-			28/07/2010	[NT]	[NT]	LCS-W1	28/07/2010
Naphthalene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	97%
Acenaphthylene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	111%
Phenanthrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	105%
Anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water - Low Level						Base II Duplicate II %RPD		
Fluoranthene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	101%
Pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	112%
Benzo(a)anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	112%
Benzo(b+k)fluoranthene	µg/L	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	121%
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	109	[NT]	[NT]	LCS-W1	114%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
Date analysed	-			30/07/2010	[NT]	[NT]	LCS-W1	30/07/2010
Arsenic-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	104%
Cadmium-Dissolved	µg/L	0.1	Metals.22 ICP-MS	<0.1	[NT]	[NT]	LCS-W1	107%
Chromium-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	101%
Copper-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	98%
Lead-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	104%
Mercury-Dissolved	µg/L	0.5	Metals.21 CV-AAS	<0.5	[NT]	[NT]	LCS-W1	98%
Nickel-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	97%
Zinc-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	[NT]	[NT]	LCS-W1	117%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-			29/07/2010	44007-1	29/07/2010 29/07/2010	LCS-W1	29/07/2010
Date analysed	-			29/07/2010	44007-1	29/07/2010 29/07/2010	LCS-W1	29/07/2010
pH	pH Units		LAB.1	[NT]	44007-1	7.0 [N/T]	LCS-W1	99%
Electrical Conductivity	µS/cm	1	LAB.2	<1.0	44007-1	1200 [N/T]	LCS-W1	98%
Total Cyanide	mg/L	0.005	LAB.13	<0.005	44007-1	<0.005 <0.005	LCS-W1	97%
Oil & Grease (LLE)	mg/L	5	LAB.3	<5	44007-1	<5 [N/T]	LCS-W1	91%
Hardness	mgCaCO ₃ /L	1		1	44007-1	387 [N/T]	[NR]	[NR]
Calcium - Dissolved	mg/L	0.03	Metals.20 ICP-AES	<0.03	44007-1	70 [N/T]	LCS-W1	99%
Magnesium - Dissolved	mg/L	0.03	Metals.20 ICP-AES	<0.03	44007-1	51 [N/T]	LCS-W1	98%
QUALITY CONTROL	UNITS	Dup. Sm#		Duplicate		Spike Sm#	Spike % Recovery	
Miscellaneous Inorganics				Base + Duplicate + %RPD				
Date prepared	-	[NT]		[NT]		44007-2	28/7/10	
Date analysed	-	[NT]		[NT]		44007-2	28/7/10	
pH	pH Units	[NT]		[NT]		[NR]	[NR]	
Electrical Conductivity	µS/cm	[NT]		[NT]		[NR]	[NR]	
Total Cyanide	mg/L	[NT]		[NT]		44007-2	98%	
Oil & Grease (LLE)	mg/L	[NT]		[NT]		[NR]	[NR]	
Hardness	mgCaCO ₃ /L	[NT]		[NT]		[NR]	[NR]	
Calcium - Dissolved	mg/L	[NT]		[NT]		[NR]	[NR]	
Magnesium - Dissolved	mg/L	[NT]		[NT]		[NR]	[NR]	

Report Comments:

Total Petroleum Hydrocarbons in water: # Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

VOC's in water: PQL has been raised as the sample/s were foamy and required dilution.

Total Petroleum Hydrocarbons/BTEX in water: PQL has been raised as the sample/s were foamy and required dilution.

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

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

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

Quality Control Definitions

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

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

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

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

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

Laboratory Acceptance Criteria:

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for



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 Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Brendan Page

Sample log in details:

Your reference:
Envirolab Reference:
Date received:
Date results expected to be reported:

E24125K, Pyrmont
44007
27/07/10
3/08/10

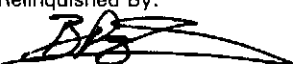
Samples received in appropriate condition for analysis:	YES
No. of samples provided	6 Waters
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice

Comments:

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

Contact details:

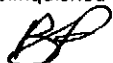
Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

TO: Envirolab Services Pty Ltd 12 Ashley St, Chatswood 2067 Phone: (02) 9910 6200 Fax: (02) 9910 6201 Attention: Aileen Date Results Required: Standard							SAMPLE AND CHAIN OF CUSTODY FORM							FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page						
EIS Job Number: E24125K							Sheet 1 / 2													
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP							Tests Required							Sample Preservation: In esky on ice						
Date Sampled	Time Sampled	Location	Sample/Borehole Number	Sample Container	PID (ppm/Odour)	Sample Description	Heavy metals	TPH	VOCs	PAHs (low level)	Cyanide	Oil and grease	BTEX	pH, EC, Hardness	Comments/Detection Limits Required					
27/7/10		①	MW605	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X						
		②	MW606	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X						
		③	MW608	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X						
		④	GW Dup 1	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X								
			GW Dup 2	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X								
				x 1L Amber Bottle x 0.5L Amber Bottle 2 x BTEX Vials x HDPE Plastic Bottle		Water														
Relinquished By: 		Date: 27/7/10 Time: 2:15pm		Received By: Z.L. 27/7/10 3pm		Remarks: All analysis POLs to ANZECC (2000) Detection Limits Please * Please send to SGS as an inter-lab dup														
Relinquished By:		Date:		Received By:																
		Time:																		



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

Job No: 44007
Date received: 27/7/10
Time received: 3pm
Received by: Z.L.
Temp: Cool/Ambient
Cooling: Ice/Repack
Security: Intact/Broken/None

TO: Envirolab Services Pty Ltd 12 Ashley St, Chatswood 2067 Phone: (02) 9910 6200 Fax: (02) 9910 6201 Attention: Aileen Date Results Required: Standard				<u>SAMPLE AND CHAIN OF CUSTODY FORM</u>										FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page				
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP							Tests Required										Sample Preservation: In esky on ice	
Date Sampled	Time Sampled	Location	Sample/ Borehole Number	Sample Container	PID (ppm/ Odour)	Sample Description	Heavy metals	TPH	VOCs	PAHs (low level)	Cyanide	Oil and grease		BTEX	pH, EC, Hardness	Comments/Detection Limits Required		
27/7/10		⑤	GW Trip Blank	1 x Glass Vial		Water								X				
↓		⑥	GW Trip Spike	1 x Glass Vial		Water								X				
Relinquished By: 			Date: 27/7/10 Time: 2:15pm		Received By: Z.L. 27/7/10 3pm		Remarks: All analysis PQLs to ANZECC (2000) Detection Limits Please											
Relinquished By:			Date: Time:		Received By:													

ANALYTICAL REPORT

30 July 2010

Jeffery and Katauskas Pty Ltd

115 Wicks Road
Macquarie Park
North Ryde BC
NSW 1670

Attention: Brendan Page

Your Reference: E24125K - Proposed Redevelopment - Pyrmont

Our Reference: SE80060

Samples: 2 Soils

Received: 22/07/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

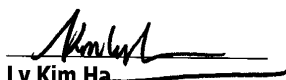
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory



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MBTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010	SE80060-2 Dup 2 Soil 20/07/2010
Date Extracted (MBTEX)		26/07/2010	26/07/2010
Date Analysed (MBTEX)		26/07/2010	26/07/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	98	101



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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010	SE80060-2 Dup 2 Soil 20/07/2010
Date Extracted (TRH C6-C9 PT)		26/07/2010	26/07/2010
Date Analysed (TRH C6-C9 PT)		26/07/2010	26/07/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		26/07/2010	26/07/2010
Date Analysed (TRH C10-C36)		26/07/2010	26/07/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	110
TRH C ₁₅ - C ₂₈	mg/kg	270	210
TRH C ₂₉ - C ₃₆	mg/kg	410	88

PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010	SE80060-2 Dup 2 Soil 20/07/2010
Date Extracted		26/07/2010	26/07/2010
Date Analysed		26/07/2010	26/07/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7
Nitrobenzene-d5	%	95	126
2-Fluorobiphenyl	%	80	98
<i>p</i> -Terphenyl-d14	%	95	115



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OC Pesticides in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010
Date Extracted		26/07/2010
Date Analysed		26/07/2010
HCB	mg/kg	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
<i>beta</i> -BHC	mg/kg	<0.1
<i>delta</i> -BHC	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	<0.1
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	111



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OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010
Date Extracted		26/07/2010
Date Analysed		26/07/2010
Dichlorvos	mg/kg	<1
Dimethoate	mg/kg	<1
Diazinon	mg/kg	<0.5
Fenitrothion	mg/kg	<0.2
Malathion	mg/kg	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2
Parathion-ethyl	mg/kg	<0.2
Bromofos-ethyl	mg/kg	<0.2
Methidathion	mg/kg	<0.5
Ethion	mg/kg	<0.2
Azinphos-methyl	mg/kg	<0.20
2-fluorobiphenyl (Surr)	%	75
d14-p-Terphenyl (Surr)	%	69



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PCBs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010
Date Extracted		26/07/2010
Date Analysed		26/07/2010
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Arochlor 1262	mg/kg	<0.1
Arochlor 1268	mg/kg	<0.1
Total Positive PCB	mg/kg	<0.90
PCB_Surrogate 1	%	111



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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80060-1 Dup 1 Soil 20/07/2010	SE80060-2 Dup 2 Soil 20/07/2010
Date Extracted (Metals)		27/07/2010	27/07/2010
Date Analysed (Metals)		27/07/2010	27/07/2010
Arsenic	mg/kg	3	<3
Cadmium	mg/kg	<0.3	<0.3
Chromium	mg/kg	7.2	2.9
Copper	mg/kg	25	1.2
Lead	mg/kg	36	5
Nickel	mg/kg	4.0	1.1
Zinc	mg/kg	67	380

Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE80060-1	SE80060-2
Your Reference	-----	Dup 1	Dup 2
Sample Matrix	-----	Soil	Soil
Date Sampled		20/07/2010	20/07/2010
Date Extracted (Mercury)		27/07/2010	27/07/2010
Date Analysed (Mercury)		27/07/2010	27/07/2010
Mercury	mg/kg	<0.05	<0.05



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Moisture	UNITS	SE80060-1	SE80060-2
Our Reference:	-----	Dup 1	Dup 2
Your Reference	-----	Soil	Soil
Sample Matrix		20/07/2010	20/07/2010
Date Sampled			
Date Analysed (moisture)		26/07/2010	26/07/2010
Moisture	%	8	15

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
AN420	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/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
MBTEX in Soil								
Date Extracted (MBTEX)				26/07/10	[NT]	[NT]	LCS	26/07/10
Date Analysed (MBTEX)				26/07/10	[NT]	[NT]	LCS	26/07/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	82%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	98%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	86%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	78%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	82%
BTEX Surrogate (%)	%	0	SEO-018	129	[NT]	[NT]	LCS	90%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				26/07/10	[NT]	[NT]	LCS	26/07/10
Date Analysed (TRH C6-C9 PT)				26/07/10	[NT]	[NT]	LCS	26/07/10
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	102%
Date Extracted (TRH C10-C36)				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Date Analysed (TRH C10-C36)				26/07/2010	[NT]	[NT]	LCS	26/07/2010
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	96%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	95%
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	84%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Date Analysed				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	87%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	97%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	114%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	102%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	100%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	100%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	99%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	[NT]	[NT]	LCS	91%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	98	[NT]	[NT]	LCS	85%
2-Fluorobiphenyl	%	0	SEO-030	77	[NT]	[NT]	LCS	78%
p -Terphenyl-d14	%	0	SEO-030	100	[NT]	[NT]	LCS	92%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Date Analysed				26/07/2010	[NT]	[NT]	LCS	26/07/2010
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	112%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	102%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	88%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	109%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	116%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	112%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xy lene (<i>Surrogate</i>)	%	0	SEO-005	103	[NT]	[NT]	LCS	104%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OP Pesticides in Soil by GCMS								
Date Extracted				26/07/10	[NT]	[NT]	LCS	26/07/10
Date Analysed				26/07/10	[NT]	[NT]	LCS	26/07/10
Dichlorvos	mg/kg	1	AN420	<1	[NT]	[NT]	LCS	114%
Dimethoate	mg/kg	1	AN420	<1	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	LCS	99%
Fenitrothion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	125%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	108%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	68	[NT]	[NT]	LCS	68%
d14-p-Terphenyl (Surr)	%	0	AN420	71	[NT]	[NT]	LCS	61%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Date Analysed				26/07/2010	[NT]	[NT]	LCS	26/07/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	104%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	[NT]	[NT]	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	103	[NT]	[NT]	LCS	99%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				27/07/2010	[NT]	[NT]	LCS	27/07/2010
Date Analysed (Metals)				27/07/2010	[NT]	[NT]	LCS	27/07/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	107%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	104%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	103%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	101%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	104%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	103%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	104%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				27/07/2010	[NT]	[NT]	LCS	27/07/2010
Date Analysed (Mercury)				27/07/2010	[NT]	[NT]	LCS	27/07/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	106%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

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.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Brendan Page**
 Client : Jeffery and Katauskas Pty Ltd
 Contact : Brendan Page
 Address : 115 Wicks Road
 Macquarie Park
 North Ryde BC NSW 1670

Email : eis@jkggroup.net.au
 Telephone : 02 9888 5000
 Facsimile : 02 9888 5001

Project : E24125K - Proposed Redevelopment - Pyrmont
 Order Number :
 Samples : 2 Soils

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim

Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplerreceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE80060**
 No. of Samples : 2
 Due Date : 30/07/2010

Date Instructions Received : 22/07/2010
 Sample Receipt Date : 22/07/2010

Samples received in good order	: YES	Samples received in correct container::	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: Other Lab	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Samples received 22/7/10 @ 4:15pm

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/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Jeffery and Katauskas Pty Ltd
Project : E24125K - Proposed Redevelopment - Pyrmont

Report No : SE80060

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep & Inorganics - All	MBTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	OP Pesticides in Soil by GC/MS	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Moisture
1	Dup 1	X	X	X	X	X	X	X	X	X	X
2	Dup 2	X	X	X	X				X	X	X

Sample No.	Description
1	Dup 1
2	Dup 2

SAMPLE AND CHAIN OF CUSTODY FORM

TO: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Phone: (02) 99106200 Fax: (02) 99106201 Attention: Aileen						EIS Job Number: E24125K Date Results Required: Standard						FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page						
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP						Tests Required						Sample Preservation: In esky on ice						
Date Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metals (8)	TPH/BTEX	PAH	OC/OP/ PCB	Asbestos	Cyanide (total)	BTEX	VOC	sVOC	sPOCAS		
20-7-10	42	BH610	0.2/0.4	Glass jar + Asb Bag	0	F	X	X	X	X	X							
20-7-10	43	↓	0.7/0.95	Glass jar + Asb Bag	0	F	X	X	X		X							
20-7-10	44	↓	1.7/1.95	Glass jar + Asb Bag	0	F												
20-7-10	45	↓	3/3.45	Glass jar + Asb Bag	0	N												
20-7-10	1	Dup 1		Glass jar + Asb Bag	-	-	X	X	X	X								
20-7-10	2	Dup 2		Glass jar + Asb Bag	-	-	X	X	X									
20-7-10	46	Dup 3		Glass jar + Asb Bag	-	-	X	X	X									
20-7-10	47	Dup 4		Glass jar + Asb Bag	-	-	X	X	X									
20-7-10	48	Dup 5		Glass jar + Asb Bag	-	-												
20-7-10	49	Rinsate A		Vial + 1L Amber		Water		X										
20-7-10	50	Trip Blank A		Glass jar		Sand							X					
20-7-10	51	Trip Spike A		Glass jar		Sand							X					
20-7-10	52	Rinsate B		Vial + 1L Amber		Water		X										
20-7-10	53	Trip Blank B		Glass jar		Sand							X					
20-7-10	54	Trip Spike B		Glass jar		Sand							X					
20-7-10	55	Dup 6		Glass jar + Asb Bag	-	-												
20-7-10	56	Dup 7		Glass jar + Asb Bag	-	-	X	X	X	X								
20-7-10	57	Dup 8		Glass jar + Asb Bag	-	-	X	X	X	X								
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														

Remarks (comments/detection limits required): Please send to SGS as inter-lab dup.

Relinquished By: BP	Date: 22/7/10 Time: 9am	Received By: JMA	Relinquished By:	Date: Time:	Received By: CP 22/7/10
---------------------	----------------------------	------------------	------------------	----------------	-------------------------

4:15pm

ANALYTICAL REPORT

4 August 2010

Jeffery and Katauskas Pty Ltd

115 Wicks Road
Macquarie Park
North Ryde BC
NSW 1670

Attention: Brendan Page

Your Reference: E24125K - Proposed Redevelopment - Pyrmont

Our Reference: SE80198

Samples: 1 Water

Received: 28/07/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

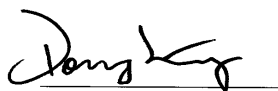
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

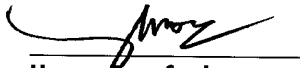
Results Approved and/or Authorised by:



Dong Liang
Quality Manager



Ly Kim Ha
Organics Signatory



Huong Crawford
Metals Signatory



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VOCs in Water - 72 List Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
Date extracted (VOCs)		2/08/2010
Date analysed (VOCs)		2/08/2010
Dichlorodifluoromethane(CFC-12)	µg/L	<5.0
Chloromethane	µg/L	<5.0
Vinyl Chloride (chloroethene)	µg/L	<0.3
Bromomethane	µg/L	<10
Chloroethane	µg/L	<5.0
Trichlorofluoromethane	µg/L	<1.0
Acetone (2-propanone)	µg/L	<10
1,1-Dichloroethene	µg/L	<0.5
Methyl Iodine (iodomethane)	µg/L	<5
Acrylonitrile	µg/L	<0.5
Methylene Chloride (DCM)	µg/L	<5
Allyl Chloride	µg/L	<0.5
Carbon Disulphide	µg/L	<0.5
<i>trans</i> -1,2-Dichloroethene	µg/L	<0.5
Methyl-tert-butyl ether (MtBE)	µg/L	<2
1,1-Dichloroethane	µg/L	<0.5
2-Butanone (MEK)	µg/L	<10
<i>cis</i> -1,2-Dichloroethene	µg/L	<0.5
Bromochloromethane	µg/L	<0.5
Chloroform	µg/L	<0.5
2,2-Dichloropropane	µg/L	<0.5
1,2-Dichloroethane	µg/L	<0.5
1,1,1-Trichloroethane	µg/L	<0.5
1,1-Dichloropropene	µg/L	<0.5
Carbon tetrachloride	µg/L	<0.5
Benzene	µg/L	<0.5
Dibromomethane	µg/L	<0.5
1,2-Dichloropropane	µg/L	<0.5
Trichloroethene (TCE)	µg/L	<0.5
2-Nitropropane	µg/L	<100
Bromodichloromethane	µg/L	<0.5
<i>cis</i> -1,3-Dichloropropene	µg/L	<0.5
4-Methyl-2-Pentanone (MIBK)	µg/L	<5
<i>trans</i> -1,3-Dichloropropene	µg/L	<0.5
1,1,2-Trichloroethane	µg/L	<0.5
Toluene	µg/L	<0.5



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VOCs in Water - 72 List Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
1,3-Dichloropropane	µg/L	<0.5
2-Hexanone (MBK)	µg/L	<5
Dibromochloromethane	µg/L	<0.5
1,2-Dibromoethane (EDB)	µg/L	<0.5
Tetrachloroethene (PCE- perchloroethylen	µg/L	<0.5
1,1,1,2-Tetrachloroethane	µg/L	<0.5
Chlorobenzene	µg/L	<0.5
Ethyl benzene	µg/L	<0.5
Bromoform	µg/L	<0.5
<i>m/p</i> -Xylenes	µg/L	<1
Cis-1,4-dichloro-2-butene	µg/L	<1
Styrene (vinyl benzene)	µg/L	<0.5
1,1,1,2-Tetrachloroethane	µg/L	<0.5
<i>o</i> -Xylene	µg/L	<0.5
1,2,3-Trichloropropane	µg/L	<0.5
Trans-1,4-dichloro-2-butene	µg/L	<1
Isopropylbenzene (Cumene)	µg/L	3.1
Bromobenzene	µg/L	<0.5
<i>n</i> -Propylbenzene	µg/L	1.2
2-Chlorotoluene	µg/L	<0.5
4-Chlorotoluene	µg/L	<0.5
1,3,5-Trimethylbenzene	µg/L	<0.5
<i>tert</i> -Butylbenzene	µg/L	<0.5
1,2,4-Trimethylbenzene	µg/L	<0.5
<i>sec</i> -Butylbenzene	µg/L	0.5
1,3-Dichlorobenzene	µg/L	<0.5
1,4-Dichlorobenzene	µg/L	<0.3
<i>p</i> -Isopropyl toluene	µg/L	<0.5
1,2-Dichlorobenzene	µg/L	<0.5
<i>n</i> -Butylbenzene	µg/L	<0.5
1,2-Dibromo-3-chloropropane	µg/L	<0.5
1,2,4-Trichlorobenzene	µg/L	<0.5
Naphthalene	µg/L	<0.5
Hexachlorobutadiene	µg/L	<1
1,2,3-Trichlorobenzene	µg/L	<0.5
Vinyl acetate	µg/L	<10
Dibromofluoromethane	%	90
1,2-Dichloroethane- <i>d</i> 4	%	82
Toluene- <i>d</i> 8 Surrogate 2	%	82



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VOCs in Water - 72 List Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
4-Bromofluorobenzene <i>Surrogate 3</i>	%	85

TRH in water with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
Date Extracted (TRH C6-C9 PT)		2/08/2010
Date Analysed (TRH C6-C9 PT)		2/08/2010
TRH C ₆ - C ₉ P&T in µg/L	µg/L	<40
Date Extracted (TRH C10-C36)		2/08/2010
Date Analysed (TRH C10-C36)		3/08/2010
TRH C ₁₀ - C ₁₄	µg/L	<100
TRH C ₁₅ - C ₂₈	µg/L	355
TRH C ₂₉ - C ₃₆	µg/L	<200

PAHs in Water-Low Level Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
Date Extracted		2/08/2010
Date Analysed		2/08/2010
Naphthalene	µg/L	0.3
Acenaphthylene	µg/L	0.1
Acenaphthene	µg/L	3.6
Fluorene	µg/L	2.7
Phenanthrene	µg/L	2.9
Anthracene	µg/L	0.6
Fluoranthene	µg/L	0.2
Pyrene	µg/L	0.1
Benzo[a]anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo[b,k]fluoranthene	µg/L	<0.2
Benzo[a]pyrene	µg/L	<0.1
Indeno[123-cd]pyrene	µg/L	<0.1
Dibenzo[ah]anthracene	µg/L	<0.1
Benzo[ghi]perylene	µg/L	<0.1
1-Methylnaphthalene	µg/L	1.9
2-Methylnaphthalene	µg/L	<0.1
Total PAHs (sum)	µg/L	<13.37
<i>p</i> -Terphenyl- <i>d</i> 14	%	122
Nitrobenzene- <i>d</i> 5	%	126
2-Fluorobiphenyl	%	118



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Inorganics Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
Date Extracted (Total Cyanide)		29/07/2010
Date Analysed (Total Cyanide)		29/07/2010
Total Cyanide	mg/L	<0.005

Inorganics Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE80198-1 GW Dup 2 Water 27/07/2010
Date Extracted (Oil & Grease)		2/08/2010
Date Analysed (Oil & Grease)		2/08/2010
Oil & Grease gravimetric	mg/L	<5



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Trace HM (ICP-MS)-Dissolved		
Our Reference:	UNITS	SE80198-1
Your Reference	-----	GW Dup 2
Sample Matrix	-----	Water
Date Sampled		27/07/2010
Date Extracted (Metals-ICPMS)		29/07/2010
Date Analysed (Metals-ICPMS)		29/07/2010
Arsenic	µg/L	<1
Cadmium	µg/L	<0.1
Chromium	µg/L	<1
Copper	µg/L	<1
Lead	µg/L	<1
Nickel	µg/L	2
Zinc	µg/L	5

Mercury Cold Vapor/Hg Analyser		
Our Reference:	UNITS	SE80198-1
Your Reference	-----	GW Dup 2
Sample Matrix	-----	Water
Date Sampled		27/07/2010
Date Extracted (Mercury)		29/07/2010
Date Analysed (Mercury)		29/07/2010
Mercury (Dissolved)	mg/L	<0.0001



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Method ID	Methodology Summary
AN433	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-019	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
AN287	Cyanide (Total or Free) - Total Cyanide is determined by colourimetric method using Discrete Analyser, following distillation of the acidified sample. Free Cyanide is determined by colourimetric method using Discrete Analyser on filtered sample. Complex Cyanide is the difference of Total and Free Cyanide. Based on APHA 21st Edition, 4500-CN C and E.
SEI-025	Oil & Grease - determined by liquid-liquid extraction with n-hexane, and then gravimetric measurement of the oil & grease residue, based on APHA 21st Edition, 5520B.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Water - 72 List								
Date extracted (VOCs)				02/08/10	[NT]	[NT]	LCS	02/08/10
Date analysed (VOCs)				02/08/10	[NT]	[NT]	LCS	02/08/10
Dichlorodifluoromethane (CFC-12)	µg/L	5	AN433	<5.0	[NT]	[NT]	[NR]	[NR]
Chloromethane	µg/L	5	AN433	<5.0	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride (chloroethene)	µg/L	0.3	AN433	<0.3	[NT]	[NT]	[NR]	[NR]
Bromomethane	µg/L	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
Chloroethane	µg/L	5	AN433	<5.0	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	µg/L	1	AN433	<1.0	[NT]	[NT]	[NR]	[NR]
Acetone (2-propanone)	µg/L	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	96%
Methyl Iodine (iodomethane)	µg/L	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
Acrylonitrile	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Methylene Chloride (DCM)	µg/L	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
Allyl Chloride	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Carbon Disulphide	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -1,2-Dichloroethene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Methyl-tert-butyl ether (MtBE)	µg/L	2	AN433	<2	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
2-Butanone (MEK)	µg/L	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -1,2-Dichloroethene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Chloroform	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	92%
2,2-Dichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2-Dichloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	128%
1,1,1-Trichloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,1-Dichloropropene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Benzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	103%
Dibromomethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2-Dichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Trichloroethene (TCE)	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	109%
2-Nitropropane	µg/L	100	AN433	<100	[NT]	[NT]	[NR]	[NR]
Bromodichloromethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Water - 72 List								
<i>cis</i> -1,3-Dichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
4-Methyl-2-Pentanone (MIBK)	µg/L	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -1,3-Dichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,1,2-Trichloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	109%
1,3-Dichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
2-Hexanone (MBK)	µg/L	5	AN433	<5	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2-Dibromoethane (EDB)	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene (PCE-perchloroethylen)	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,1,1,2-Tetrachloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	107%
Ethyl benzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	118%
Bromoform	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>m/p</i> -Xylenes	µg/L	1	AN433	<1	[NT]	[NT]	LCS	118%
<i>Cis</i> -1,4-dichloro-2-butene	µg/L	1	AN433	<1	[NT]	[NT]	[NR]	[NR]
Styrene (vinyl benzene)	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,1,2,2-Tetrachloroethane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>o</i> -Xylene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	LCS	109%
1,2,3-Trichloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>Trans</i> -1,4-dichloro-2-butene	µg/L	1	AN433	<1	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene (Cumene)	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Bromobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>n</i> -Propylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
2-Chlorotoluene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
4-Chlorotoluene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,3,5-Trimethylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>tert</i> -Butylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2,4-Trimethylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
<i>sec</i> -Butylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,3-Dichlorobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,4-Dichlorobenzene	µg/L	0.3	AN433	<0.3	[NT]	[NT]	[NR]	[NR]
<i>p</i> -Isopropyl toluene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Water - 72 List								
1,2-Dichlorobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
n-Butylbenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2-Dibromo-3-chloropropane	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
1,2,4-Trichlorobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Naphthalene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	AN433	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-Trichlorobenzene	µg/L	0.5	AN433	<0.5	[NT]	[NT]	[NR]	[NR]
Vinyl acetate	µg/L	10	AN433	<10	[NT]	[NT]	[NR]	[NR]
Dibromofluoromethane	%	0	SEO-019	92	[NT]	[NT]	LCS	97%
1,2-Dichloroethane-d4	%	0	SEO-019	90	[NT]	[NT]	LCS	108%
Toluene-d8 Surrogate 2	%	0	SEO-019	95	[NT]	[NT]	LCS	100%
4-Bromofluorobenzene Surrogate 3	%	0	SEO-019	78	[NT]	[NT]	LCS	76%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in water with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				02/08/10	[NT]	[NT]	LCS	02/08/10
Date Analysed (TRH C6-C9 PT)				02/08/10	[NT]	[NT]	LCS	02/08/10
TRH C6 - C9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	103%
Date Extracted (TRH C10-C36)				02/08/10	[NT]	[NT]	LCS	02/08/10
Date Analysed (TRH C10-C36)				03/08/10	[NT]	[NT]	LCS	03/08/10
TRH C10 - C14	µg/L	100	SEO-020	<100	[NT]	[NT]	LCS	101%
TRH C15 - C28	µg/L	200	SEO-020	<200	[NT]	[NT]	LCS	83%
TRH C29 - C36	µg/L	200	SEO-020	<200	[NT]	[NT]	LCS	78%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Water-Low Level								
Date Extracted				2/08/2010	[NT]	[NT]	LCS	2/08/2010
Date Analysed				2/08/2010	[NT]	[NT]	LCS	2/08/2010
Naphthalene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	124%
Acenaphthylene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	112%
Acenaphthene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	108%
Fluorene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Phenanthrene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	130%
Anthracene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	116%
Fluoranthene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	128%
Pyrene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	110%
Benzo[a]anthracene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	µg/L	0.2	SEO-030	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	LCS	121%
Indeno[123-cd]pyrene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
2-Methylnaphthalene	µg/L	0.1	SEO-030	<0.1	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	µg/L	1.8	SEO-030	<2	[NT]	[NT]	[NR]	[NR]
<i>p</i> -Terphenyl- <i>d</i> 14	%	0	SEO-030	80	[NT]	[NT]	LCS	86%
Nitrobenzene- <i>d</i> 5	%	0	SEO-030	90	[NT]	[NT]	LCS	80%
2-Fluorobiphenyl	%	0	SEO-030	95	[NT]	[NT]	LCS	86%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Inorganics						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Total Cyanide)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Date Analysed (Total Cyanide)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Total Cyanide	mg/L	0.005	AN287	<0.005	[NT]	[NT]	LCS	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Inorganics						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Oil & Grease)				02/08/2010	[NT]	[NT]	LCS	02/08/2010
Date Analysed (Oil & Grease)				02/08/2010	[NT]	[NT]	LCS	02/08/2010
Oil & Grease gravimetric	mg/L	5	SEI-025	<5	[NT]	[NT]	LCS	89%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Trace HM (ICP-MS)-Dissolved						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Metals-ICPMS)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Date Analysed (Metals-ICPMS)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Arsenic	µg/L	1	AN318	<1	[NT]	[NT]	LCS	121%
Cadmium	µg/L	0.1	AN318	<0.1	[NT]	[NT]	LCS	100%
Chromium	µg/L	1	AN318	<1	[NT]	[NT]	LCS	96%
Copper	µg/L	1	AN318	<1	[NT]	[NT]	LCS	95%
Lead	µg/L	1	AN318	<1	[NT]	[NT]	LCS	99%
Nickel	µg/L	1	AN318	<1	[NT]	[NT]	LCS	99%
Zinc	µg/L	1	AN318	<1	[NT]	[NT]	LCS	104%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Date Analysed (Mercury)				29/07/2010	[NT]	[NT]	LCS	29/07/2010
Mercury (Dissolved)	mg/L	0.0001	SEM-005	<0.0001	[NT]	[NT]	LCS	107%

Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

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.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Brendan Page**
 Client : Jeffery and Katauskas Pty Ltd
 Contact : Brendan Page
 Address : 115 Wicks Road
 Macquarie Park
 North Ryde BC NSW 1670

Email : eis@jkgroup.net.au
 Telephone : 02 9888 5000
 Facsimile : 02 9888 5001

Project : E24125K - Proposed Redevelopment - Pyrmont
 Order Number :
 Samples : 1 Water

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim

Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplerreceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE80198**
 No. of Samples : 1
 Due Date : 4/08/2010

Date Instructions Received : 28/07/2010
 Sample Receipt Date : 28/07/2010

Samples received in good order	: YES	Samples received in correct container::	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: Other Lab	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Heavy Metals = 8 HM (As,Cd,Cr,Cu,Pb,Hg,Ni,Zn)

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/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Jeffery and Katauskas Pty Ltd Report No : SE80198
Project : E24125K - Proposed Redevelopment - Pyrmont

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

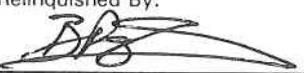
Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep. water 8HM (diss)	VOCs in Water-SGS Nat. 72 List	TRH in water with C6-C9 by P/T	PAHs in Water-Low Level	Inorganics	Inorganics	Trace HM (ICP-MS)-Dissolved	Mercury Cold Vapor/Hg Analyser
1	GW Dup 2	X	X	X	X	X	X	X	X

Sample No.	Description
1	GW Dup 2

TO: Envirolab Services Pty Ltd 12 Ashley St, Chatswood 2067 Phone: (02) 9910 6200 Fax: (02) 9910 6201 Attention: Aileen Date Results Required: Standard							SAMPLE AND CHAIN OF CUSTODY FORM							FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page			
							EIS Job Number: E24125K							Sheet 1 / 2			
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP							Tests Required							Sample Preservation: In esky on ice			
Date Sampled	Time Sampled	Location	Sample/Borehole Number	Sample Container	PID (ppm/Odour)	Sample Description	Heavy metals	TPH	VOCs	PAHs (low level)	Cyanide	Oil and grease	BTEX	pH, EC, Hardness	Comments/Detection Limits Required		
27/7/10			MW605	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X			
			MW606	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X			
			MW608	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X		X			
			GW Dup 1	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X					
			GW Dup 2	3 x 1L Amber Bottle 1 x 0.5L Amber Bottle 2 x BTEX Vials 1 x HDPE Plastic Bottle		Water	X	X	X	X	X	X					
				x 1L Amber Bottle x 0.5L Amber Bottle 2 x BTEX Vials x HDPE Plastic Bottle		Water											
Relinquished By: 			Date: 27/7/10 Time: 2:15pm		Received By: CP 28/7/10 3:15pm		Remarks: All analysis PQLs to ANZECC (2000) Detection Limits Please * Please send to SGS as an inter-lab dup										
Relinquished By:			Date: Time:		Received By:												

SGS

Received 28/7/10
By CP
Time 3:15 PM
Samples intact
ice/Cooler Pack
Temperature on Receipt 5°C
Storage Location W194
SGS REF No SE 80198