

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De08030	NCP	%	92		70-130	Pass	
TRH C6-C10	S12-De08030	NCP	%	73		70-130	Pass	
TRH >C10-C16	S12-De11734	NCP	%	109		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De10640	NCP	%	101		70-130	Pass	
Acenaphthylene	S12-De10640	NCP	%	101		70-130	Pass	
Anthracene	S12-De10640	NCP	%	117		70-130	Pass	
Benz(a)anthracene	S12-De10640	NCP	%	112		70-130	Pass	
Benzo(a)pyrene	S12-De10640	NCP	%	95		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De10640	NCP	%	99		70-130	Pass	
Benzo(g,h,i)perylene	S12-De10640	NCP	%	95		70-130	Pass	
Chrysene	S12-De10640	NCP	%	108		70-130	Pass	
Dibenz(a,h)anthracene	S12-De10640	NCP	%	90		70-130	Pass	
Fluoranthene	S12-De10640	NCP	%	106		70-130	Pass	
Fluorene	S12-De10640	NCP	%	92		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De10640	NCP	%	81		70-130	Pass	
Naphthalene	S12-De10640	NCP	%	100		70-130	Pass	
Phenanthrene	S12-De10640	NCP	%	88		70-130	Pass	
Pyrene	S12-De10640	NCP	%	107		70-130	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Lead	S12-De09619	NCP	%	118		70-130	Pass	
Zinc	S12-De08007	NCP	%	94		70-130	Pass	
Spike - % Recovery								
Semivolatile Organic Compounds (SVOC)				Result 1				
2-Chlorophenol	S12-De07871	NCP	%	96		70-130	Pass	
4-Chloro-3-methylphenol	S12-De07871	NCP	%	78		70-130	Pass	
Chlorpyrifos	S12-De08017	NCP	%	102		70-130	Pass	
Coumaphos	S12-De08017	NCP	%	119		70-130	Pass	
Demeton-O	S12-De08017	NCP	%	80		70-130	Pass	
Demeton-S	S12-De08017	NCP	%	76		70-130	Pass	
Diazinon	S12-De08017	NCP	%	100		70-130	Pass	
Dichlorvos	S12-De08017	NCP	%	99		70-130	Pass	
Dimethoate	S12-De08017	NCP	%	106		70-130	Pass	
Disulfoton	S12-De08017	NCP	%	80		70-130	Pass	
Ethoprop	S12-De08017	NCP	%	102		70-130	Pass	
Fenitrothion	S12-De08017	NCP	%	107		70-130	Pass	
Fensulfothion	S12-De08017	NCP	%	117		70-130	Pass	
Fenthion	S12-De08017	NCP	%	102		70-130	Pass	
Malathion	S12-De08017	NCP	%	116		70-130	Pass	
Methyl azinphos	S12-De08017	NCP	%	112		70-130	Pass	
Methyl parathion	S12-De08017	NCP	%	118		70-130	Pass	
Mevinphos	S12-De08017	NCP	%	100		70-130	Pass	
Monocrotophos	S12-De08017	NCP	%	97		70-130	Pass	
N-Nitrosodipropylamine	S12-De07871	NCP	%	70		70-130	Pass	
Parathion	S12-De08017	NCP	%	103		70-130	Pass	
Phenol	S12-De07871	NCP	%	81		70-130	Pass	
Phorate	S12-De08017	NCP	%	95		70-130	Pass	
Profenofos	S12-De08017	NCP	%	114		70-130	Pass	
Prothiofos	S12-De08017	NCP	%	109		70-130	Pass	
Ronnel	S12-De08017	NCP	%	102		70-130	Pass	
Stirophos	S12-De08017	NCP	%	112		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloronate	S12-De08017	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S12-De08660	CP	%	84			70-130	Pass	
Cadmium	S12-De08660	CP	%	75			70-130	Pass	
Chromium	S12-De08660	CP	%	79			70-130	Pass	
Copper	S12-De08660	CP	%	107			70-130	Pass	
Mercury	S12-De08660	CP	%	102			70-130	Pass	
Nickel	S12-De08660	CP	%	89			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De08647	CP	mg/kg	< 10	< 10	<1	30%	Pass	
TRH C10-C14	S12-De11734	NCP	mg/kg	< 50	< 50	6.0	30%	Pass	
TRH C15-C28	S12-De11734	NCP	mg/kg	< 100	< 100	2.0	30%	Pass	
TRH C29-C36	S12-De11734	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-De08647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-De08647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-De08647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-De08647	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-De08647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-De08647	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-De08647	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-De08647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-De08647	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-De08647	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S12-De11734	NCP	mg/kg	< 50	< 50	8.0	30%	Pass	
TRH >C16-C34	S12-De11734	NCP	mg/kg	< 100	< 100	2.0	30%	Pass	
TRH >C34-C40	S12-De11734	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De10640	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S12-De10640	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD			
2-Chloronaphthalene	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorophenol	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
2-Methylnaphthalene	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Naphthylamine	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Nitroaniline	S12-De07943	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2-Nitrophenol	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S12-De07943	NCP	mg/kg	< 1	< 1	<1	30%	Pass
3-Methylcholanthrene	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Aminobiphenyl	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Bromophenyl phenyl ether	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorophenyl phenyl ether	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Nitrophenol	S12-De07943	NCP	mg/kg	< 4	< 4	<1	30%	Pass
4,4'''-DDD	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'''-DDE	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'''-DDT	S12-De07943	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Acetophenone	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aldrin	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aniline	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-chloroethoxy)methane	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-ethylhexyl)phthalate	S12-De07943	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Butyl benzyl phthalate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorpyrifos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Coumaphos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
d-BHC	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-O	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-S	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-butyl phthalate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-octyl phthalate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diazinon	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenzofuran	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorvos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dieldrin	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diethyl phthalate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethoate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethyl phthalate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diphenylamine	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Disulfoton	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endosulfan sulphate	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin aldehyde	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin ketone	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethoprop	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenitrothion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fensulfthion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenthion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
g-BHC (Lindane)	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor epoxide	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobenzene	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobutadiene	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorocyclopentadiene	S12-De07871	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Hexachloroethane	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Malathion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methoxychlor	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl azinphos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD			
Methyl parathion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mevinphos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Monocrotophos	S12-De11837	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
N-Nitrosodibutylamine	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Parathion	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	S12-De07943	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	S12-De07943	NCP	mg/kg	< 1	< 4	<1	30%	Pass	
Phenol	S12-De07871	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phorate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Profenofos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Prothiofos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ronnel	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Stirophos	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloronate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S12-De08658	CP	mg/kg	2.9	5.7	66	30%	Fail	Q15
Cadmium	S12-De08658	CP	mg/kg	< 0.4	< 0.4	9.0	30%	Pass	
Chromium	S12-De08658	CP	mg/kg	< 5	< 5	23	30%	Pass	
Copper	S12-De08658	CP	mg/kg	26	30	15	30%	Pass	
Lead	S12-De08658	CP	mg/kg	99	79	23	30%	Pass	
Mercury	S12-De08658	CP	mg/kg	0.21	0.26	20	30%	Pass	
Nickel	S12-De08658	CP	mg/kg	< 5	7.0	42	30%	Fail	Q15
Zinc	S12-De08658	CP	mg/kg	93	84	10	30%	Pass	

Comments

Please note: Asbestos analysed by ASET (Job : ASET31905/35085/1-2) NATA Accreditation : 14484

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Laura Schofield	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET31905/ 35085 / 1 - 2

Your ref: 362729

NATA Accreditation No: 14484

14 December 2012

MGT- Labmark Environmental Pty Ltd
Unit F3, Building F, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of two samples, forwarded by MGT- Labmark Environmental Pty Ltd on 12 December 2012, for analysis for asbestos.

1.Introduction: Two samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET31905 / 35085 / 1. BH127 - 1.0-1.1m - De08647**
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster and bitumen.
No asbestos detected.

Sample No. 2. ASET31905 / 35085 / 2. BH125 - 0.23-0.33m - De08657
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster and bitumen.
No asbestos detected.

Analysed and reported by,

Nisansala Maddage. BSc(Hons)
Environmental Scientist/Approved Identifier

Mahen De Silva . BSc. MSc. Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Signatory



This document is issued in accordance with NATA's Accreditation requirements. Accredited for compliance with ISO/IEC 17025.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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SPECIALISTS IN ENVIRONMENTAL
SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood

Report Results to: Matthew Locke

Invoices to: Matthew Locke

Mobile:

Phone:

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Email: matthew_locke

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Project No: GEOTLCOV24303AF Task No:

Laboratory: MGT LabMark

Project Manager: Matthew Locke

Special Instructions:

TPH/BTEX/PAH TO BE TESTED AS SUITE B4 / METALS TESTED AS M8

Lab No.	Sample ID	Sample Date	Time	Matrix (Sol., etc)	Container Type & Preservative*	T-A-T (specify)
BH129	(1.0-1.1m)	11/12/12		Soil		Standard
BH129	(1.0-1.1m) A					
BH129	(1.5-1.6m)					
BH129	(2.0-2.1m)					
QC18						
BH129	(2.5-2.6m)					
BH129	(2.5-2.6m) A					
BH129	(2.9-3.0m)					
BH129	(3.4-3.5m)					
BH129	(3.9-4.0m)					
BH129	(3.9-4.0m) A					
BH129	(4.5-4.6m)					
BH129	(5.0-5.1m)					
BH129	(5.4-5.5m)					
BH126	(0.31-0.41m)	12/12/12				
QC19						
QC19A						
BH126	(0.5-0.6m)					

RELINQUISHED BY

Name: Priya Dass

Date: 12/12/12

Time: 1:17 p.m.

Date:

Time:

→

Name: SUE

Company: MGT LabMark

Name:

Company:

RECEIVED BY

Date: 12/12/12

Time: 1:17

Date:

Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition

All Documentation is in Proper Order

Samples Received Properly Chilled

Lab. Ref/Batch No.

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

Coffey Environments

Version: 4

Issue Date: 24/08/2012

Send to Envirolab.

NOTES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2 103788

coffey environments SPECIALISTS IN ENVIRONMENTAL SOCIAL AND SAFETY PERFORMANCE		Consigning Office: Chatswood Report Results to: Matthew Locke Invoices to: Matthew Locke		Email: matthew_locke Email: matthew_locke @coffey.com @coffey.com	
Project No: SICEEP-GEOTLON Project Name: SICEEP Sampler's Name: Pritya Dass Special Instructions: AS PER PAGE 1		Laboratory: MGT LabMark Project Manager: Matthew Locke		Mobile: _____ Phone: _____	

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)	Analysis Request Section	Notes
	BH126 (0.5-0.6m) A	12/12/12		Soil		Standard	TPH/BTEX/PAH (M)	
	BH126 (0.7-0.9m)						TPH/BTEX/PAH (M)	
	BH126 (1.4-1.5m)						TPH/BTEX/PAH (M)	
	BH126 (1.6-1.8m)						TPH/BTEX/PAH (M)	
	BH126 (1.6-1.8m) A						TPH/BTEX/PAH (M)	
	BH126 (2.4-2.5m)						TPH/BTEX/PAH (M)	
	BH126 (2.9-3.0m)						TPH/BTEX/PAH (M)	
	BH119 (0.11-0.21m)						TPH/BTEX/PAH (M)	
	BH119 (0.11-0.21m) A						TPH/BTEX/PAH (M)	
	BH119 0.33m Asb						TPH/BTEX/PAH (M)	
	BH119 (0.4-0.5m)						TPH/BTEX/PAH (M)	
	QC20						TPH/BTEX/PAH (M)	
	BH119 (0.8-0.9m)						TPH/BTEX/PAH (M)	
	BH119 (1.4-1.5m)						TPH/BTEX/PAH (M)	
	BH119 (1.4-1.5m) A						TPH/BTEX/PAH (M)	
	BH119 (2.0-2.1m)						TPH/BTEX/PAH (M)	
	BH119 (2.1-2.3m)						TPH/BTEX/PAH (M)	
	BH119 (2.9-3.0m)						TPH/BTEX/PAH (M)	

RELINQUISHED BY		RECEIVED BY	
Name: Pritya Dass	Date: 12/12/12	Name: SUE	Date: 12/12/12
Company: coffey environments	Time: 1:17 P.M.	Company: MGT LabMark	Time: 1-17
Name: _____	Date: _____	Name: _____	Date: _____
Company: _____	Time: _____	Company: _____	Time: _____

Sample Receipt Advice: (Lab Use Only) ☐ All Samples Received in Good Condition ☐ All Documentation is in Proper Order ☐ Samples Received Properly Chilled Lab Ref/Batch No. _____	
--	--

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

COFFEY PRINTING (02) 9756 3646

Version: 4

Issue Date: 24/08/2012

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**
Contact name: **Matthew Locke**
Client job number: **SICEEP GEOTLCOV24303AF**
COC number: **103787-103788**
Turn around time: **5 Day**
Date/Time received: **Dec 12, 2012 4:20 PM**
mgt-LabMark reference: **362912**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by mgt-LabMark
Sample Receipt : 13 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Asbestos analysis conducted by ASET | Sample QC19A sent to Envirolab as requested
Samples received by the laboratory after 4pm are deemed to have been received the following working day.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

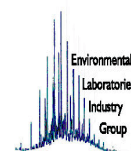
mgt-LabMark Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

35Years of Environmental Analysis & Experience – fully Australian Owned



Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report **362912-S**
Client Reference SICEEP GEOTLCOV24303AF
Received Date Dec 12, 2012

Certificate of Analysis



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			BH129_(1.0-1.1m)	BH129_(1.0-1.1m)_A	BH129_(1.5-1.6m)	BH129_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09868	S12-De09869	S12-De09870	S12-De09871
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	-	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	-	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	-	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	-	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	-	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	-	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	-	< 1.5
4-Bromofluorobenzene (surr.)	1	%	84	90	-	92
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	1.0
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	1.9
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	3.4
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	2.9
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	-	4.7
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	1.4
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	3.7
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	1.0	1.0	-	11
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	0.7
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	1.2
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			BH129_(1.0-1.1m)	BH129_(1.0-1.1m)_A	BH129_(1.5-1.6m)	BH129_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09868	S12-De09869	S12-De09870	S12-De09871
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	9.9
Pyrene	0.5	mg/kg	0.9	0.9	-	9.2
Total PAH	1	mg/kg	1.9	1.9	-	51
2-Fluorobiphenyl (surr.)	1	%	87	90	-	89
p-Terphenyl-d14 (surr.)	1	%	96	95	-	91
Semivolatile Organic Compounds (SVOC)						
2-Chloronaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2-Methylnaphthalene	0.5	mg/kg	-	-	-	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	-	-	-	< 0.5
2-Naphthylamine	0.5	mg/kg	-	-	-	< 1
2-Nitroaniline	1	mg/kg	-	-	-	< 1
2-Nitrophenol	0.5	mg/kg	-	-	-	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	-	-	-	< 1
3-Methylcholanthrene	0.5	mg/kg	-	-	-	< 0.5
4-Aminobiphenyl	0.5	mg/kg	-	-	-	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	-	-	-	< 0.5
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	-	< 0.5
4-Nitrophenol	0.5	mg/kg	-	-	-	< 0.5
4,4'-DDD	0.5	mg/kg	-	-	-	< 0.5
4,4'-DDE	0.5	mg/kg	-	-	-	< 0.5
4,4'-DDT	1	mg/kg	-	-	-	< 1
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	1.0
Acetophenone	0.5	mg/kg	-	-	-	< 0.5
Aldrin	0.5	mg/kg	-	-	-	< 0.5
Aniline	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	1.9
Benz(a)anthracene	0.5	mg/kg	-	-	-	3.4
Benzo(a)pyrene	0.5	mg/kg	-	-	-	2.9
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	1.4
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	-	< 0.5
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	-	-	< 5
Butyl benzyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Chlorpyrifos	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	3.7
Coumaphos	0.5	mg/kg	-	-	-	< 0.5
d-BHC	0.5	mg/kg	-	-	-	< 0.5
Demeton-O	0.5	mg/kg	-	-	-	< 0.5
Demeton-S	0.5	mg/kg	-	-	-	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Diazinon	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Dibenzofuran	0.5	mg/kg	-	-	-	0.5
Dichlorvos	0.5	mg/kg	-	-	-	< 0.5
Dieldrin	0.5	mg/kg	-	-	-	< 0.5
Diethyl phthalate	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH129_(1.0-1.1m)	BH129_(1.0-1.1m)_A	BH129_(1.5-1.6m)	BH129_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09868	S12-De09869	S12-De09870	S12-De09871
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Dimethoate	0.5	mg/kg	-	-	-	< 0.5
Dimethyl phthalate	0.5	mg/kg	-	-	-	< 0.5
Diphenylamine	0.5	mg/kg	-	-	-	< 0.5
Disulfoton	0.5	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.5	mg/kg	-	-	-	< 0.5
Endrin	0.5	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.5	mg/kg	-	-	-	< 0.5
Endrin ketone	0.5	mg/kg	-	-	-	< 0.5
Ethoprop	0.5	mg/kg	-	-	-	< 0.5
Fenitrothion	0.5	mg/kg	-	-	-	< 0.5
Fensulfothion	0.5	mg/kg	-	-	-	< 0.5
Fenthion	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	11
Fluorene	0.5	mg/kg	-	-	-	0.7
g-BHC (Lindane)	0.5	mg/kg	-	-	-	< 0.5
Heptachlor	0.5	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Hexachlorocyclopentadiene	1	mg/kg	-	-	-	< 1
Hexachloroethane	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	1.2
Malathion	0.5	mg/kg	-	-	-	< 0.5
Methoxychlor	0.5	mg/kg	-	-	-	< 0.5
Methyl azinphos	0.5	mg/kg	-	-	-	< 0.5
Methyl parathion	0.5	mg/kg	-	-	-	< 0.5
Mevinphos	0.5	mg/kg	-	-	-	< 0.5
Monocrotophos	10	mg/kg	-	-	-	< 10
N-Nitrosodibutylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	-	-	-	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Nitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Parathion	0.5	mg/kg	-	-	-	< 0.5
Pentachlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	-	-	-	< 0.5
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Phenanthrene	0.5	mg/kg	-	-	-	9.9
Phenol	0.5	mg/kg	-	-	-	< 0.5
Phorate	0.5	mg/kg	-	-	-	< 0.5
Profenofos	0.5	mg/kg	-	-	-	< 0.5
Prothiofos	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	9.2
Ronnel	0.5	mg/kg	-	-	-	< 0.5
Stirophos	0.5	mg/kg	-	-	-	< 0.5
Trichloronate	0.5	mg/kg	-	-	-	< 0.5
Phenol-d6 (surr.)	1	%	-	-	-	84
Nitrobenzene-d5 (surr.)	1	%	-	-	-	81
p-Terphenyl-d14 (surr.)	1	%	-	-	-	91

Client Sample ID			BH129_(1.0-1.1m)	BH129_(1.0-1.1m)_A	BH129_(1.5-1.6m)	BH129_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09868	S12-De09869	S12-De09870	S12-De09871
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
2-Fluorobiphenyl (surr.)	1	%	-	-	-	89
Heavy Metals						
Arsenic	2	mg/kg	9.6	6.9	-	9.3
Cadmium	0.4	mg/kg	0.6	0.5	-	1.2
Chromium	5	mg/kg	6.9	7.1	-	10
Copper	5	mg/kg	150	130	-	110
Lead	5	mg/kg	370	410	-	330
Mercury	0.05	mg/kg	4.3	4.5	-	3.0
Nickel	5	mg/kg	14	12	-	11
Zinc	5	mg/kg	1700	1700	-	2200
% Moisture	0.1	%	25	23	-	19
Asbestos			See attached	-	See attached	-

Client Sample ID			QC18	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09872	S12-De09875	S12-De09877	S12-De09880
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	87	92	93	89
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QC18	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09872	S12-De09875	S12-De09877	S12-De09880
Date Sampled			Dec 11, 2012	Dec 11, 2012	Dec 11, 2012	Dec 11, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.1	0.8	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.7	0.7	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	2.8	1.1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.7	0.7	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	4.6	1.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.6	0.7	< 0.5	< 0.5
Pyrene	0.5	mg/kg	4.0	1.4	< 0.5	< 0.5
Total PAH	1	mg/kg	22	6.9	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	98	91	90	93
p-Terphenyl-d14 (surr.)	1	%	100	94	94	98
Heavy Metals						
Arsenic	2	mg/kg	12	-	-	-
Cadmium	0.4	mg/kg	2.1	-	-	-
Chromium	5	mg/kg	13	-	-	-
Copper	5	mg/kg	98	-	-	-
Lead	5	mg/kg	330	-	-	-
Mercury	0.05	mg/kg	2.7	-	-	-
Nickel	5	mg/kg	12	-	-	-
Zinc	5	mg/kg	1000	-	-	-
% Moisture	0.1	%	18	15	24	26

Client Sample ID			BH126_(0.31-0.41m)	QC19	BH126_(0.5-0.6m)	BH126_(0.5-0.6m)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09882	S12-De09883	S12-De09884	S12-De09885
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH126_(0.31-0.41m)	QC19	BH126_(0.5-0.6m)	BH126_(0.5-0.6m)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09882	S12-De09883	S12-De09884	S12-De09885
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
BTEX						
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	51	50	66	61
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	1.6	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	2.8	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	2.2	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	2.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	13	< 1
2-Fluorobiphenyl (surr.)	1	%	76	72	88	88
p-Terphenyl-d14 (surr.)	1	%	29	19	88	87
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	3.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	15	17	41	20
Lead	5	mg/kg	33	41	95	68
Mercury	0.05	mg/kg	0.30	0.36	0.47	0.36
Nickel	5	mg/kg	< 5	< 5	5.7	< 5
Zinc	5	mg/kg	29	39	100	95
% Moisture	0.1	%	27	26	20	21
Asbestos			See attached	-	See attached	-

Client Sample ID			BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH119_(0.11-0.21m)	BH119_0.33m-ASB
Sample Matrix			Soil	Soil	Soil	Other
mgt-LabMark Sample No.			S12-De09887	S12-De09890	S12-De09892	S12-De09894
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	-
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	-
TRH C15-C28	100	mg/kg	< 100	250	< 100	-
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	-
TRH C10-36 (Total)	100	mg/kg	< 100	250	< 100	-
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	-
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
4-Bromofluorobenzene (surr.)	1	%	101	101	102	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	110	240	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	0.8	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	1.3	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	4.1	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	3.1	< 0.5	< 0.5	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	5.9	< 1	< 1	-
Benzo(g,h,i)perylene	0.5	mg/kg	1.2	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	3.1	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	7.3	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.3	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	3.7	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	5.9	< 0.5	< 0.5	-
Total PAH	1	mg/kg	38	< 1	< 1	-
2-Fluorobiphenyl (surr.)	1	%	91	85	93	-
p-Terphenyl-d14 (surr.)	1	%	93	83	97	-
Semivolatile Organic Compounds (SVOC)						
2-Chloronaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2-Methylnaphthalene	0.5	mg/kg	-	< 0.5	-	-
2-Methylphenol (o-Cresol)	0.5	mg/kg	-	< 0.5	-	-
2-Naphthylamine	0.5	mg/kg	-	< 1	-	-

Client Sample ID			BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH119_(0.11-0.21m)	BH119_0.33m_AS
Sample Matrix			Soil	Soil	Soil	Other
mgt-LabMark Sample No.			S12-De09887	S12-De09890	S12-De09892	S12-De09894
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
2-Nitroaniline	1	mg/kg	-	< 1	-	-
2-Nitrophenol	0.5	mg/kg	-	< 0.5	-	-
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	-	< 1	-	-
3-Methylcholanthrene	0.5	mg/kg	-	< 0.5	-	-
4-Aminobiphenyl	0.5	mg/kg	-	< 0.5	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	0.5	mg/kg	-	< 0.5	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	0.5	mg/kg	-	< 0.5	-	-
4,4'-DDD	0.5	mg/kg	-	< 0.5	-	-
4,4'-DDE	0.5	mg/kg	-	< 0.5	-	-
4,4'-DDT	1	mg/kg	-	< 1	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Acetophenone	0.5	mg/kg	-	< 0.5	-	-
Aldrin	0.5	mg/kg	-	< 0.5	-	-
Aniline	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	< 0.5	-	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	< 5	-	-
Butyl benzyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Chlorpyrifos	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Coumaphos	0.5	mg/kg	-	< 0.5	-	-
d-BHC	0.5	mg/kg	-	< 0.5	-	-
Demeton-O	0.5	mg/kg	-	< 0.5	-	-
Demeton-S	0.5	mg/kg	-	< 0.5	-	-
Di-n-butyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Di-n-octyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Diazinon	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Dibenzofuran	0.5	mg/kg	-	< 0.5	-	-
Dichlorvos	0.5	mg/kg	-	< 0.5	-	-
Dieldrin	0.5	mg/kg	-	< 0.5	-	-
Diethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Dimethoate	0.5	mg/kg	-	< 0.5	-	-
Dimethyl phthalate	0.5	mg/kg	-	< 0.5	-	-
Diphenylamine	0.5	mg/kg	-	< 0.5	-	-
Disulfoton	0.5	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.5	mg/kg	-	< 0.5	-	-
Endrin	0.5	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.5	mg/kg	-	< 0.5	-	-
Endrin ketone	0.5	mg/kg	-	< 0.5	-	-
Ethoprop	0.5	mg/kg	-	< 0.5	-	-
Fenitrothion	0.5	mg/kg	-	< 0.5	-	-
Fensulfothion	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH119_(0.11-0.21m)	BH119_0.33m_AS
Sample Matrix			Soil	Soil	Soil	Other
mgt-LabMark Sample No.			S12-De09887	S12-De09890	S12-De09892	S12-De09894
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Fenthion	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
g-BHC (Lindane)	0.5	mg/kg	-	< 0.5	-	-
Heptachlor	0.5	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Hexachlorocyclopentadiene	1	mg/kg	-	< 1	-	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Malathion	0.5	mg/kg	-	< 0.5	-	-
Methoxychlor	0.5	mg/kg	-	< 0.5	-	-
Methyl azinphos	0.5	mg/kg	-	< 0.5	-	-
Methyl parathion	0.5	mg/kg	-	< 0.5	-	-
Mevinphos	0.5	mg/kg	-	< 0.5	-	-
Monocrotophos	10	mg/kg	-	< 10	-	-
N-Nitrosodibutylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosodipropylamine	0.5	mg/kg	-	< 0.5	-	-
N-Nitrosopiperidine	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Nitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Parathion	0.5	mg/kg	-	< 0.5	-	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachloronitrobenzene	0.5	mg/kg	-	< 0.5	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phorate	0.5	mg/kg	-	< 0.5	-	-
Profenofos	0.5	mg/kg	-	< 0.5	-	-
Prothiofos	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Ronnel	0.5	mg/kg	-	< 0.5	-	-
Stirophos	0.5	mg/kg	-	< 0.5	-	-
Trichloronate	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	81	-	-
Nitrobenzene-d5 (surr.)	1	%	-	76	-	-
p-Terphenyl-d14 (surr.)	1	%	-	83	-	-
2-Fluorobiphenyl (surr.)	1	%	-	85	-	-
Heavy Metals						
Arsenic	2	mg/kg	3.5	25	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	7.4	< 5	< 5	-
Copper	5	mg/kg	560	< 5	75	-
Lead	5	mg/kg	710	9.7	5.6	-
Mercury	0.05	mg/kg	5.7	< 0.05	< 0.05	-
Nickel	5	mg/kg	7.4	< 5	210	-
Zinc	5	mg/kg	140	< 5	90	-

Client Sample ID			BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH119_(0.11-0.21m)	BH119_0.33m_AS
Sample Matrix			Soil	Soil	Soil	Other
mgt-LabMark Sample No.			S12-De09887	S12-De09890	S12-De09892	S12-De09894
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
% Moisture	0.1	%	13	28	7.2	-
Asbestos			-	-	See attached	See attached

Client Sample ID			BH119_(0.4-0.5m)	QC20	BH119_(0.8-0.9m)	BH119_(1.4-1.5m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09895	S12-De09896	S12-De09897	S12-De09898
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	-	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	-	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	-	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	-	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	-	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	-	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	-	< 1.5
4-Bromofluorobenzene (surr.)	1	%	103	101	-	95
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	-	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			BH119_(0.4-0.5m)	QC20	BH119_(0.8-0.9m)	BH119_(1.4-1.5m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De09895	S12-De09896	S12-De09897	S12-De09898
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH	1	mg/kg	< 1	< 1	-	< 1
2-Fluorobiphenyl (surr.)	1	%	90	86	-	94
p-Terphenyl-d14 (surr.)	1	%	95	90	-	100
Heavy Metals						
Arsenic	2	mg/kg	4.8	6.4	-	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	< 5	-	24
Copper	5	mg/kg	17	15	-	< 5
Lead	5	mg/kg	40	38	-	63
Mercury	0.05	mg/kg	0.20	0.13	-	0.51
Nickel	5	mg/kg	6.3	5.5	-	< 5
Zinc	5	mg/kg	26	36	-	30
% Moisture	0.1	%	15	15	-	17
Asbestos			See attached	-	See attached	-

Client Sample ID			BH119_(1.4-1.5m)_A	BH119_(2.1-2.3m)
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De09899	S12-De09901
Date Sampled			Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	10	mg/kg	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100
BTEX				
Benzene	0.5	mg/kg	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	96	98
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50

Client Sample ID			BH119_(1.4-1.5m)_A	BH119_(2.1-2.3m)
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De09899	S12-De09901
Date Sampled			Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polyaromatic Hydrocarbons (PAH)				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	93	92
p-Terphenyl-d14 (surr.)	1	%	99	99
Heavy Metals				
Arsenic	2	mg/kg	3.8	34
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	21	35
Copper	5	mg/kg	24	96
Lead	5	mg/kg	190	530
Mercury	0.05	mg/kg	1.8	4.9
Nickel	5	mg/kg	6.7	35
Zinc	5	mg/kg	70	220
% Moisture	0.1	%	17	25

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 14, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 14, 2012	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Dec 14, 2012	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	Dec 14, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Semivolatile Organic Compounds (SVOC)	Sydney	Dec 14, 2012	14 Day
- Method: E017 Semivolatile Organic Compounds (SVOC)			
Metals M8	Sydney	Dec 14, 2012	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Dec 14, 2012	28 Day
- Method: E005 Moisture Content			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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NSW 2067

Client Job No.: SICEEP GEOTLCOV24303AF

Order No.:
Report #: 362912
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Dec 12, 2012 4:20 PM
Due: Dec 20, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH129_(1.0-1.1m)	Dec 11, 2012		Soil	S12-De09868	X	X		X	X	
BH129_(1.0-1.1m) A	Dec 11, 2012		Soil	S12-De09869	X			X	X	
BH129_(1.5-1.6m)	Dec 11, 2012		Soil	S12-De09870		X				
BH129_(2.0-2.1m)	Dec 11, 2012		Soil	S12-De09871	X			X	X	X
QC18	Dec 11, 2012		Soil	S12-De09872	X			X	X	
BH129_(2.5-2.6m)	Dec 11, 2012		Soil	S12-De09873			X			

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH129_(2.5-2.6m)_A	Dec 11, 2012		Soil	S12-De09874			X			
BH129_(2.9-3.0m)	Dec 11, 2012		Soil	S12-De09875	X				X	
BH129_(3.4-3.5m)	Dec 11, 2012		Soil	S12-De09876			X			
BH129_(3.9-4.0m)	Dec 11, 2012		Soil	S12-De09877	X				X	
BH129_(3.9-4.0m)_A	Dec 11, 2012		Soil	S12-De09878			X			
BH129_(4.5-4.6m)	Dec 11, 2012		Soil	S12-De09879			X			
BH129_(5.0-5.1m)	Dec 11, 2012		Soil	S12-De09880	X				X	

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH129_(5.4-5.5m)	Dec 11, 2012		Soil	S12-De09881			X			
BH126_(0.31-0.41m)	Dec 12, 2012		Soil	S12-De09882	X	X		X	X	
QC19	Dec 12, 2012		Soil	S12-De09883	X			X	X	
BH126_(0.5-0.6m)	Dec 12, 2012		Soil	S12-De09884	X	X		X	X	
BH126_(0.5-0.6m)_A	Dec 12, 2012		Soil	S12-De09885	X			X	X	
BH126_(0.7-0.9m)	Dec 12, 2012		Soil	S12-De09886			X			
BH126_(1.4-1.5m)	Dec 12, 2012		Soil	S12-De09887	X			X	X	

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH126_(1.6-1.8m)	Dec 12, 2012		Soil	S12-De09888			X			
BH126_(1.6-1.8m)_A	Dec 12, 2012		Soil	S12-De09889			X			
BH126_(2.4-2.5m)	Dec 12, 2012		Soil	S12-De09890	X			X	X	X
BH126_(2.9-3.0m)	Dec 12, 2012		Soil	S12-De09891			X			
BH119_(0.11-0.21m)	Dec 12, 2012		Soil	S12-De09892	X	X		X	X	
BH119_(0.11-0.21m)_A	Dec 12, 2012		Soil	S12-De09893			X			
BH119_0.33m_ASF	Dec 12, 2012		Other	S12-De09894		X				

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH119_(0.4-0.5m)	Dec 12, 2012		Soil	S12-De09895	X	X		X	X	
QC20	Dec 12, 2012		Soil	S12-De09896	X			X	X	
BH119_(0.8-0.9m)	Dec 12, 2012		Soil	S12-De09897		X				
BH119_(1.4-1.5m)	Dec 12, 2012		Soil	S12-De09898	X			X	X	
BH119_(1.4-1.5m) A	Dec 12, 2012		Soil	S12-De09899	X			X	X	
BH119_(2.0-2.1m)	Dec 12, 2012		Soil	S12-De09900			X			
BH119_(2.1-2.3m)	Dec 12, 2012		Soil	S12-De09901	X			X	X	

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
BH119_(2.9-3.0m)	Dec 12, 2012		Soil	S12-De09902			X			

mgt-LabMark Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
3. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 10			10	Pass	
TRH C10-C14	mg/kg	< 50			50	Pass	
TRH C15-C28	mg/kg	< 100			100	Pass	
TRH C29-C36	mg/kg	< 100			100	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
Xylenes(ortho.meta and para)	mg/kg	< 1.5			1.5	Pass	
Total BTEX	mg/kg	< 1.5			1.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)							
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.5			0.5	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 1			1	Pass	
2-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 1			1	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 0.5			0.5	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
4,4'-DDD	mg/kg	< 0.5			0.5	Pass	
4,4'-DDE	mg/kg	< 0.5			0.5	Pass	
4,4'-DDT	mg/kg	< 1			1	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 5			5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
Chlorpyrifos	mg/kg	< 0.5			0.5	Pass	
Coumaphos	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Demeton-O	mg/kg	< 0.5			0.5	Pass	
Demeton-S	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Diazinon	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dichlorvos	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethoate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Disulfoton	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
Ethoprop	mg/kg	< 0.5			0.5	Pass	
Fenitrothion	mg/kg	< 0.5			0.5	Pass	
Fensulfathion	mg/kg	< 0.5			0.5	Pass	
Fenthion	mg/kg	< 0.5			0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 1			1	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Malathion	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
Methyl azinphos	mg/kg	< 0.5			0.5	Pass	
Methyl parathion	mg/kg	< 0.5			0.5	Pass	
Mevinphos	mg/kg	< 0.5			0.5	Pass	
Monocrotophos	mg/kg	< 10			10	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Parathion	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Phorate	mg/kg	< 0.5			0.5	Pass	
Profenofos	mg/kg	< 0.5			0.5	Pass	
Prothiofos	mg/kg	< 0.5			0.5	Pass	
Ronnel	mg/kg	< 0.5			0.5	Pass	
Stirophos	mg/kg	< 0.5			0.5	Pass	
Trichloronate	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	96			70-130	Pass	
TRH C10-C14	%	118			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	95			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
Total m+p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes(ortho.meta and para)	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	%	111			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	101			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	97			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	96			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	95			70-130	Pass	
Benzo(g,h,i)perylene	%	90			70-130	Pass	
Chrysene	%	101			70-130	Pass	
Dibenz(a,h)anthracene	%	89			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	89			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene			%	95			70-130	Pass	
LCS - % Recovery									
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)									
2-Chlorophenol			%	95			70-130	Pass	
4-Chloro-3-methylphenol			%	83			70-130	Pass	
4-Nitrophenol			%	74			70-130	Pass	
Bis(2-ethylhexyl)phthalate			%	91			70-130	Pass	
Butyl benzyl phthalate			%	91			70-130	Pass	
Chlorpyrifos			%	105			70-130	Pass	
Coumaphos			%	89			70-130	Pass	
Demeton-O			%	97			70-130	Pass	
Demeton-S			%	101			70-130	Pass	
Di-n-butyl phthalate			%	98			70-130	Pass	
Di-n-octyl phthalate			%	76			70-130	Pass	
Diazinon			%	102			70-130	Pass	
Dichlorvos			%	113			70-130	Pass	
Diethyl phthalate			%	103			70-130	Pass	
Dimethoate			%	97			70-130	Pass	
Dimethyl phthalate			%	88			70-130	Pass	
Disulfoton			%	101			70-130	Pass	
Ethoprop			%	101			70-130	Pass	
Fenitrothion			%	95			70-130	Pass	
Fensulfothion			%	100			70-130	Pass	
Fenthion			%	106			70-130	Pass	
Malathion			%	105			70-130	Pass	
Methyl azinphos			%	81			70-130	Pass	
Methyl parathion			%	106			70-130	Pass	
Mevinphos			%	104			70-130	Pass	
Monocrotophos			%	97			70-130	Pass	
N-Nitrosodipropylamine			%	72			70-130	Pass	
Parathion			%	105			70-130	Pass	
Pentachlorophenol			%	73			70-130	Pass	
Phenol			%	95			70-130	Pass	
Phorate			%	102			70-130	Pass	
Profenofos			%	102			70-130	Pass	
Prothiofos			%	103			70-130	Pass	
Ronnel			%	112			70-130	Pass	
Stirophos			%	103			70-130	Pass	
Trichloronate			%	109			70-130	Pass	
LCS - % Recovery									
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury									
Arsenic			%	102			70-130	Pass	
Cadmium			%	99			70-130	Pass	
Chromium			%	104			70-130	Pass	
Copper			%	80			70-130	Pass	
Lead			%	108			70-130	Pass	
Mercury			%	103			70-130	Pass	
Nickel			%	103			70-130	Pass	
Zinc			%	99			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S12-De09868	CP	%	87			70-130	Pass	
TRH C10-C14	S12-De09868	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-De09868	CP	%	81		70-130	Pass	
Toluene	S12-De09868	CP	%	81		70-130	Pass	
Ethylbenzene	S12-De09868	CP	%	82		70-130	Pass	
Total m+p-Xylenes	S12-De09868	CP	%	84		70-130	Pass	
o-Xylene	S12-De09868	CP	%	81		70-130	Pass	
Xylenes(ortho.meta and para)	S12-De09868	CP	%	83		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De09868	CP	%	86		70-130	Pass	
TRH C6-C10	S12-De09868	CP	%	86		70-130	Pass	
TRH >C10-C16	S12-De09868	CP	%	94		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De09868	CP	%	93		70-130	Pass	
Acenaphthylene	S12-De09868	CP	%	95		70-130	Pass	
Anthracene	S12-De09868	CP	%	99		70-130	Pass	
Benz(a)anthracene	S12-De09868	CP	%	119		70-130	Pass	
Benzo(a)pyrene	S12-De09868	CP	%	125		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De09868	CP	%	118		70-130	Pass	
Benzo(g,h,i)perylene	S12-De09868	CP	%	109		70-130	Pass	
Chrysene	S12-De09868	CP	%	118		70-130	Pass	
Dibenz(a,h)anthracene	S12-De09868	CP	%	93		70-130	Pass	
Fluoranthene	S12-De09868	CP	%	114		70-130	Pass	
Fluorene	S12-De09868	CP	%	90		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De09868	CP	%	102		70-130	Pass	
Naphthalene	S12-De09868	CP	%	95		70-130	Pass	
Phenanthrene	S12-De09868	CP	%	114		70-130	Pass	
Pyrene	S12-De09868	CP	%	113		70-130	Pass	
Spike - % Recovery								
Semivolatile Organic Compounds (SVOC)				Result 1				
2-Chlorophenol	S12-De11837	NCP	%	89		70-130	Pass	
4-Chloro-3-methylphenol	S12-De11837	NCP	%	74		70-130	Pass	
4-Nitrophenol	S12-De11837	NCP	%	71		70-130	Pass	
Chlorpyrifos	S12-De08017	NCP	%	102		70-130	Pass	
Coumaphos	S12-De08017	NCP	%	119		70-130	Pass	
Demeton-O	S12-De08017	NCP	%	80		70-130	Pass	
Demeton-S	S12-De08017	NCP	%	76		70-130	Pass	
Diazinon	S12-De08017	NCP	%	100		70-130	Pass	
Dichlorvos	S12-De08017	NCP	%	99		70-130	Pass	
Dimethoate	S12-De08017	NCP	%	106		70-130	Pass	
Disulfoton	S12-De08017	NCP	%	80		70-130	Pass	
Ethoprop	S12-De08017	NCP	%	102		70-130	Pass	
Fenitrothion	S12-De08017	NCP	%	107		70-130	Pass	
Fensulfothion	S12-De08017	NCP	%	117		70-130	Pass	
Fenthion	S12-De08017	NCP	%	102		70-130	Pass	
Malathion	S12-De08017	NCP	%	116		70-130	Pass	
Methyl azinphos	S12-De08017	NCP	%	112		70-130	Pass	
Methyl parathion	S12-De08017	NCP	%	118		70-130	Pass	
Mevinphos	S12-De08017	NCP	%	100		70-130	Pass	
Monocrotophos	S12-De08017	NCP	%	97		70-130	Pass	
N-Nitrosodipropylamine	S12-De11837	NCP	%	72		70-130	Pass	
Parathion	S12-De08017	NCP	%	103		70-130	Pass	
Pentachlorophenol	S12-De11837	NCP	%	93		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenol	S12-De11837	NCP	%	81			70-130	Pass	
Phorate	S12-De08017	NCP	%	95			70-130	Pass	
Profenofos	S12-De08017	NCP	%	114			70-130	Pass	
Prothiofos	S12-De08017	NCP	%	109			70-130	Pass	
Ronnel	S12-De08017	NCP	%	102			70-130	Pass	
Stirophos	S12-De08017	NCP	%	112			70-130	Pass	
Trichloronate	S12-De08017	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S12-De09872	CP	%	104			70-130	Pass	
Chromium	S12-De09872	CP	%	84			70-130	Pass	
Nickel	S12-De09872	CP	%	124			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S12-De09895	CP	%	112			70-130	Pass	
Cadmium	S12-De09895	CP	%	99			70-130	Pass	
Chromium	S12-De09895	CP	%	124			70-130	Pass	
Copper	S12-De09895	CP	%	110			70-130	Pass	
Lead	S12-De09895	CP	%	115			70-130	Pass	
Mercury	S12-De09895	CP	%	103			70-130	Pass	
Nickel	S12-De09895	CP	%	114			70-130	Pass	
Zinc	S12-De09895	CP	%	99			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De09868	CP	mg/kg	< 10	< 10	<1	30%	Pass	
TRH C10-C14	S12-De09868	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C15-C28	S12-De09868	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C29-C36	S12-De09868	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-De09868	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-De09868	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-De09868	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-De09868	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-De09868	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S12-De09868	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S12-De09868	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S12-De09868	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De09868	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Benzo(g,h,i)perylene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S12-De09868	CP	mg/kg	1.0	1.2	18	30%	Pass
Fluorene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S12-De09868	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S12-De09868	CP	mg/kg	0.9	1.1	17	30%	Pass
Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
2-Chloronaphthalene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Chlorophenol	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylnaphthalene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Naphthylamine	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2-Nitroaniline	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2-Nitrophenol	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
3-Methylcholanthrene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Aminobiphenyl	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Bromophenyl phenyl ether	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorophenyl phenyl ether	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Nitrophenol	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDD	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDE	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4,4'-DDT	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Acetophenone	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aldrin	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aniline	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-chloroethoxy)methane	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bis(2-ethylhexyl)phthalate	S12-De11837	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Butyl benzyl phthalate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorpyrifos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Coumaphos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
d-BHC	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-O	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Demeton-S	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-butyl phthalate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Di-n-octyl phthalate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diazinon	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenzofuran	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorvos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dieldrin	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diethyl phthalate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethoate	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dimethyl phthalate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Diphenylamine	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Disulfoton	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endosulfan sulphate	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin aldehyde	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Endrin ketone	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethoprop	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Semivolatile Organic Compounds (SVOC)				Result 1	Result 2	RPD		
Fenitrothion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fensulfothion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fenthion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
g-BHC (Lindane)	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor epoxide	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobenzene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorobutadiene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Hexachlorocyclopentadiene	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Hexachloroethane	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Malathion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methoxychlor	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl azinphos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methyl parathion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mevinphos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Monocrotophos	S12-De08017	NCP	mg/kg	< 10	< 10	<1	30%	Pass
N-Nitrosodibutylamine	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosodipropylamine	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
N-Nitrosopiperidine	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Nitrobenzene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Parathion	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorobenzene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachloronitrobenzene	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorophenol	S12-De11837	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Phenol	S12-De11837	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phorate	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Profenofos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Prothiofos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ronnel	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Stirophos	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloronate	S12-De08017	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S12-De09871	CP	mg/kg	9.3	14	39	30%	Fail
Cadmium	S12-De09871	CP	mg/kg	1.2	0.9	23	30%	Pass
Chromium	S12-De09871	CP	mg/kg	10	11	6.0	30%	Pass
Copper	S12-De09871	CP	mg/kg	110	110	8.0	30%	Pass
Lead	S12-De09871	CP	mg/kg	330	260	22	30%	Pass
Mercury	S12-De09871	CP	mg/kg	3.0	3.5	17	30%	Pass
Nickel	S12-De09871	CP	mg/kg	11	13	17	30%	Pass
Zinc	S12-De09871	CP	mg/kg	2200	1800	22	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S12-De09885	CP	mg/kg	< 10	< 10	<1	30%	Pass
TRH C10-C14	S12-De09885	CP	mg/kg	< 50	< 50	3.0	30%	Pass
TRH C15-C28	S12-De09885	CP	mg/kg	< 100	< 100	3.0	30%	Pass
TRH C29-C36	S12-De09885	CP	mg/kg	< 100	< 100	9.0	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Total m+p-Xylenes	S12-De09885	CP	mg/kg	< 1	< 1	<1	30%	Pass
o-Xylene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes(ortho.meta and para)	S12-De09885	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass

Duplicate								
BTEX				Result 1	Result 2	RPD		
Total BTEX	S12-De09885	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
Naphthalene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S12-De09885	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10 less BTEX (F1)	S12-De09885	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S12-De09885	CP	mg/kg	< 50	< 50	1.0	30%	Pass
TRH >C16-C34	S12-De09885	CP	mg/kg	< 100	< 100	2.0	30%	Pass
TRH >C34-C40	S12-De09885	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De09885	CP	mg/kg	< 1	< 1	<1	30%	Pass
Benzo(g,h,i)perylene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S12-De09885	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S12-De09892	CP	mg/kg	< 2	< 2	200	30%	Fail Q15
Cadmium	S12-De09892	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S12-De09892	CP	mg/kg	< 5	< 5	39	30%	Fail Q15
Copper	S12-De09892	CP	mg/kg	75	73	2.0	30%	Pass
Lead	S12-De09892	CP	mg/kg	5.6	6.0	7.0	30%	Pass
Mercury	S12-De09892	CP	mg/kg	< 0.05	< 0.05	18	30%	Pass
Nickel	S12-De09892	CP	mg/kg	210	190	8.0	30%	Pass
Zinc	S12-De09892	CP	mg/kg	90	76	17	30%	Pass

Comments

Please note: Asbestos analysed by ASET (Job : ASET31927/35107/1-8) NATA Accreditation : 14484

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Laura Schofield	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET31927/ 35107 / 1 - 8

Your ref: 362912

NATA Accreditation No: 14484

18 December 2012

MGT- Labmark Environmental Pty Ltd
Unit F3, Building F, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of eight samples, forwarded by MGT- Labmark Environmental Pty Ltd on 13 December 2012, for analysis for asbestos.

1.Introduction:Eight samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET31927 / 35107 / 1. BH129 - 1.0-1.1m - De09868**
Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster, corroded metal and glass.
No asbestos detected.

Sample No. 2. ASET31927 / 35107 / 2. BH129 - 1.5-1.6m - De09870
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster, corroded metal and glass.
No asbestos detected.

Sample No. 3. ASET31927 / 35107 / 3. BH126 - 0.31-0.41m - De09882
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of soil, stones, fragments of plaster, corroded metal and glass.
No asbestos detected.

Sample No. 4. ASET31927 / 35107 / 4. BH126 - 0.5-0.6m - De09884
Approx dimensions 6.0 cm x 6.0 cm x 2.5 cm
The sample consisted of a mixture of soil, stones, fragments of plaster, corroded metal and glass.
No asbestos detected.

Sample No. 5. ASET31927 / 35107 / 5. BH119 - 0.11-0.21m - De09892
Approx dimensions 6.0 cm x 6.0 cm x 3.0 cm
The sample consisted of a mixture of clayish soil and stones.
No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Sample No. 6. ASET31927 / 35107 / 6. BH119 - 0.33m - ASB - De09894

Approx dimensions 4.0 cm x 2.5 cm x 0.4 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos detected.

Sample No. 7. ASET31927 / 35107 / 7. BH119 - 0.4-0.5m - De09895

Approx dimensions 6.0 cm x 6.0 cm x 2.0 cm

The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of plaster.

No asbestos detected.

Sample No. 8. ASET31927 / 35107 / 8. BH119 - 0.8-0.9m - De09897

Approx dimensions 6.0 cm x 6.0 cm x 3.0 cm

The sample consisted of a mixture of clayish soil, stones and fragments of plaster.

No asbestos detected.

Analysed and reported by,

A handwritten signature in black ink, appearing to read "Nisansala Maddage".

Nisansala Maddage. BSc(Hons)
Environmental Scientist/Approved Identifier

A handwritten signature in black ink, appearing to read "Mahen De Silva".

Mahen De Silva . BSc. MSc. Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Signatory



This document is issued in accordance with NATA's Accreditation requirements. Accredited for compliance with ISO/IEC 17025.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Report Results to: Matthew #4

Report results to: Matthew ⁴⁴

Invoices to: Matthew

Invoices to: Mathias

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MGT Lab Mark

ger: Matthew Locke.

TEST TPH/BTEX/PAH AS SUITE B4/METALS AS SUITE M8

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative*	T-A-T (specify)
	BH118 (0.05-0.15m)	12/12/12		Soil		Standard
	BH118 (0.5-0.6m)					
	BH118 (0.5-0.6m)-A					
	BH118 (1.0-1.1m)					
	QC21					
	QC21A					
	BH118 (1.4-1.5m)					
	BH118 (2.0-2.1m)					
	BH118 (2.0-2.1m)-A					
	BH118 (2.4-2.5m)					
	BH118 (3.0-3.1m)					
	BH118 (3.5-3.6m)					
	BH118 (4.0-4.1m)					
	BH118 (4.4-4.5m)					
	BH122 (0.05-0.15m)	13/12/12				
	QC22					
	BH122 (0.5-0.6m)					
	BH122 (0.5-0.6m)-A					

REFINOUISHED BY

Name: Paula Davis Date: 13/12/12

Name: Priya Doss
Date: 13/12/12
Time: 11:05 A.M.

Name: _____ Date: _____

Time:

RECEIVED BY

Name: SUE

Company: MGT Labmark

Name: _____

Company:

Date: 13/12/12

Time: 11-20-11

Date: _____

Time:

Sample Receipt Advice: (Lab Use Only)

All samples received in Good Condition

All Documentation is in Proper Order

Samples Received Properly Chilled

Lab. Ref/Batch No.

Company: _____
Title: _____

_____ Vial 7 Ziplock Bag N - Nitric Acid Preserved C - Hydrochloric Acid Preserved

* Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziploc Bag, etc. M - Preservative, OP - Other Preservative

Version: 4

Coffey Environments

Issue Date: 24/08/2012

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2 103790Consigning Office: ChatswoodSPECIALISTS IN ENVIRONMENTAL
SOCIAL AND SAFETY PERFORMANCEReport Results to: Matthew LockeEmail: Matthew Locke @coffey.com

Mobile:

Invoices to: Matthew LockeEmail: Matthew Locke @coffey.com

Task No:

Project No: GEOTLCOV24303AF

Laboratory:

MGT LabMark

Project Manager:

Matthew Locke

Sampler's Name: Priga Dass

Special Instructions:

AS PER PAGE 1

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil, etc)	Container Type & Preservative *	T-A-T (specify)	NOTES
	BH122 (1.0-1.1m)	13/12/12		Soil		Standard	
	BH122 (1.5-1.6m)						
	BH123 (0.08-0.18m)						
	BH123 (0.08-0.18m) A						
	BH123 (0.5-0.6m)						
	BH123 (1.0-1.1m)						
	BH123 (1.5-1.6m)						
	BH123 (1.5-1.6m) A						

RELINQUISHED BY		RECEIVED BY	
Name: <u>Priga Dass</u>	Date: <u>13/12/12</u>	Name: <u>SUE</u>	Date: <u>13/12/12</u>
Company: <u>Coffey Environments</u>	Time: <u>11:05 a.m.</u>	Company: <u>MGT Labmark</u>	Time: <u>11:05 a.m.</u>
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

☐ All Samples Received in Good Condition

☐ All Documentation is in Proper Order

☐ Samples Received Properly Chilled

Lab. Ref/Batch No. _____

* Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved,

S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

Version: 4

Coffey Environments

Issue Date: 24/08/2012

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**

Contact name: **Matthew Locke**
Client job number: **SICEEP GEOTLCOV24303AF**
COC number: **103789-90**
Turn around time: **5 Day**
Date/Time received: **Dec 14, 2012 5:00 PM**
mgt-LabMark reference: **363099**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by mgt-LabMark
Sample Receipt : 3.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Sample ID received as BH_118 through process of elimination labelled as BH118_(3.0-3.1m) | Asbestos analysis conducted by ASET | Sample QC21A sent to Envirolab as requested
Samples received by the laboratory after 4pm are deemed to have been received the following working day.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

Certificate of Analysis

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Matthew Locke

Report 363099-S
Client Reference SICEEP GEOTLCOV24303AF
Received Date Dec 14, 2012

Client Sample ID			BH118_(0.5-0.6m)	BH118_(0.5-0.6m)_A	BH118_(1.0-1.1m)	QC21
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11018	S12-De11019	S12-De11020	S12-De11021
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	88	89	89	88
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH118_(0.5-0.6m)	BH118_(0.5-0.6m)_A	BH118_(1.0-1.1m)	QC21
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11018	S12-De11019	S12-De11020	S12-De11021
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	105	96	88	93
p-Terphenyl-d14 (surr.)	1	%	102	95	90	94
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.6	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	7.0	5.6	-	-
Copper	5	mg/kg	23	17	-	-
Lead	5	mg/kg	44	58	-	-
Mercury	0.05	mg/kg	0.07	0.06	-	-
Nickel	5	mg/kg	7.3	11	-	-
Zinc	5	mg/kg	280	250	-	-
% Moisture	0.1	%	9.8	11	18	13
Asbestos			See attached	-	See attached	-

Client Sample ID			BH118_(2.0-2.1m)	BH118_(2.0-2.1m)_A	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11023	S12-De11024	S12-De11026	S12-De11027
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	88	97	81	97
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH118_(2.0-2.1m)	BH118_(2.0-2.1m)_A	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11023	S12-De11024	S12-De11026	S12-De11027
Date Sampled			Dec 12, 2012	Dec 12, 2012	Dec 12, 2012	Dec 12, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	89	88	89	98
p-Terphenyl-d14 (surr.)	1	%	87	84	87	93
Heavy Metals						
Arsenic	2	mg/kg	2.8	-	4.1	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	6.1	-	< 5	-
Copper	5	mg/kg	< 5	-	5.0	-
Lead	5	mg/kg	13	-	7.6	-
Mercury	0.05	mg/kg	< 0.05	-	< 0.05	-
Nickel	5	mg/kg	< 5	-	< 5	-
Zinc	5	mg/kg	78	-	140	-
% Moisture	0.1	%	11	14	21	19

Client Sample ID			BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11032	S12-De11035	S12-De11036	S12-De11038
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De11032	S12-De11035	S12-De11036	S12-De11038
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	101	103	93	99
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.3	< 0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.3	< 0.5	0.7
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	2.0	< 1	1.2
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.1	< 0.5	0.6
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	2.4	< 0.5	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.6	1.4	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.9	2.3	< 0.5	1.1
Total PAH	1	mg/kg	2.4	13	< 1	5.2
2-Fluorobiphenyl (surr.)	1	%	93	93	96	93
p-Terphenyl-d14 (surr.)	1	%	89	91	92	90
Heavy Metals						
Arsenic	2	mg/kg	2.1	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	11	-	-	-
Copper	5	mg/kg	20	-	-	-
Lead	5	mg/kg	35	-	-	-
Mercury	0.05	mg/kg	0.06	-	-	-
Nickel	5	mg/kg	8.0	-	-	-
Zinc	5	mg/kg	60	-	-	-
% Moisture	0.1	%	6.7	7.4	14	6.5
Asbestos			See attached	-	See attached	See attached

Client Sample ID			BH123 (1.5-1.6m)	BH123 (1.5-1.6m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De11040	S12-De11041
Date Sampled			Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	10	mg/kg	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50
TRH C15-C28	100	mg/kg	380	810
TRH C29-C36	100	mg/kg	100	220
TRH C10-36 (Total)	100	mg/kg	480	1000
BTEX				
Benzene	0.5	mg/kg	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	95	95
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	60
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	60
TRH >C16-C34	100	mg/kg	390	840
TRH >C34-C40	100	mg/kg	< 100	100
Polyaromatic Hydrocarbons (PAH)				
Acenaphthene	0.5	mg/kg	0.8	2.6
Acenaphthylene	0.5	mg/kg	4.8	5.3
Anthracene	0.5	mg/kg	6.0	12
Benz(a)anthracene	0.5	mg/kg	13	34
Benzo(a)pyrene	0.5	mg/kg	14	30
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	20	46
Benzo(g,h,i)perylene	0.5	mg/kg	6.7	13
Chrysene	0.5	mg/kg	8.8	27
Dibenz(a,h)anthracene	0.5	mg/kg	1.6	4.0
Fluoranthene	0.5	mg/kg	28	58
Fluorene	0.5	mg/kg	3.9	6.2
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	5.6	12
Naphthalene	0.5	mg/kg	2.7	3.0
Phenanthrene	0.5	mg/kg	19	44
Pyrene	0.5	mg/kg	25	55
Total PAH	1	mg/kg	160	350
2-Fluorobiphenyl (surr.)	1	%	93	101
p-Terphenyl-d14 (surr.)	1	%	88	97
% Moisture	0.1	%	5.0	4.9

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 17, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 17, 2012	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Dec 17, 2012	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	Dec 17, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Dec 17, 2012	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Dec 17, 2012	28 Day
- Method: E005 Moisture Content			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: SICEEP GEOTLCOV24303AF

Order No.:
Report #: 363099
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Dec 14, 2012 5:00 PM
Due: Dec 27, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH118_(0.05-0.15m)	Dec 12, 2012		Soil	S12-De11017			X		
BH118_(0.5-0.6m)	Dec 12, 2012		Soil	S12-De11018	X	X		X	X
BH118_(0.5-0.6m)_A	Dec 12, 2012		Soil	S12-De11019	X			X	X
BH118_(1.0-1.1m)	Dec 12, 2012		Soil	S12-De11020	X	X			X
QC21	Dec 12, 2012		Soil	S12-De11021	X				X
BH118_(1.4-1.5m)	Dec 12, 2012		Soil	S12-De11022			X		

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
BH118_(2.0-2.1m)	Dec 12, 2012		Soil	S12-De11023	X			X	X
BH118_(2.0-2.1m)_A	Dec 12, 2012		Soil	S12-De11024	X				X
BH118_(2.4-2.5m)	Dec 12, 2012		Soil	S12-De11025			X		
BH118_(3.0-3.1m)	Dec 12, 2012		Soil	S12-De11026	X			X	X
BH118_(3.5-3.6m)	Dec 12, 2012		Soil	S12-De11027	X				X
BH118_(4.0-4.1m)	Dec 12, 2012		Soil	S12-De11028			X		
BH118_(4.4-4.5m)	Dec 12, 2012		Soil	S12-De11029			X		

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
BH122_(0.05-0.15m)	Dec 13, 2012		Soil	S12-De11030			X		
QC22	Dec 13, 2012		Soil	S12-De11031			X		
BH122_(0.5-0.6m)	Dec 13, 2012		Soil	S12-De11032	X	X		X	X
BH122_(0.5-0.6m) A	Dec 13, 2012		Soil	S12-De11033			X		
BH122_(1.0-1.1m)	Dec 13, 2012		Soil	S12-De11034			X		
BH122_(1.5-1.6m)	Dec 13, 2012		Soil	S12-De11035	X				X
BH123_(0.08-0.18m)	Dec 13, 2012		Soil	S12-De11036	X	X			X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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NSW 2067

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Order No.:
Report #: 363099
Phone: +61 2 9406 1000
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Received: Dec 14, 2012 5:00 PM
Due: Dec 27, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
BH123_(0.08-0.18m)_A	Dec 13, 2012		Soil	S12-De11037			X		
BH123_(0.5-0.6m)	Dec 13, 2012		Soil	S12-De11038	X	X			X
BH123_(1.0-1.1m)	Dec 13, 2012		Soil	S12-De11039			X		
BH123_(1.5-1.6m)	Dec 13, 2012		Soil	S12-De11040	X				X
BH123_(1.5-1.6m)_A	Dec 13, 2012		Soil	S12-De11041	X				X

mgt-LabMark Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
3. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 10			10	Pass	
TRH C10-C14	mg/kg	< 50			50	Pass	
TRH C15-C28	mg/kg	< 100			100	Pass	
TRH C29-C36	mg/kg	< 100			100	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
Xylenes(ortho.meta and para)	mg/kg	< 1.5			1.5	Pass	
Total BTEX	mg/kg	< 1.5			1.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9			%	94		70-130	Pass	
TRH C10-C14			%	107		70-130	Pass	
LCS - % Recovery								
BTEX E029/E016 BTEX								
Benzene			%	91		70-130	Pass	
Toluene			%	92		70-130	Pass	
Ethylbenzene			%	100		70-130	Pass	
Total m+p-Xylenes			%	103		70-130	Pass	
o-Xylene			%	105		70-130	Pass	
Xylenes(ortho.meta and para)			%	104		70-130	Pass	
LCS - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010								
Naphthalene			%	91		70-130	Pass	
TRH C6-C10			%	86		70-130	Pass	
TRH >C10-C16			%	99		70-130	Pass	
LCS - % Recovery								
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)								
Acenaphthene			%	101		70-130	Pass	
Acenaphthylene			%	93		70-130	Pass	
Anthracene			%	92		70-130	Pass	
Benz(a)anthracene			%	88		70-130	Pass	
Benzo(a)pyrene			%	99		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene			%	98		70-130	Pass	
Benzo(g,h,i)perylene			%	97		70-130	Pass	
Chrysene			%	102		70-130	Pass	
Dibenz(a,h)anthracene			%	95		70-130	Pass	
Fluoranthene			%	88		70-130	Pass	
Fluorene			%	96		70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	95		70-130	Pass	
Naphthalene			%	97		70-130	Pass	
Phenanthrene			%	89		70-130	Pass	
Pyrene			%	89		70-130	Pass	
LCS - % Recovery								
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury								
Arsenic			%	89		70-130	Pass	
Cadmium			%	76		70-130	Pass	
Chromium			%	95		70-130	Pass	
Copper			%	88		70-130	Pass	
Lead			%	83		70-130	Pass	
Mercury			%	105		70-130	Pass	
Nickel			%	93		70-130	Pass	
Zinc			%	80		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S12-De11018	CP	%	92		70-130	Pass	
TRH C10-C14	S12-De11018	CP	%	99		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-De11018	CP	%	83		70-130	Pass	
Toluene	S12-De11018	CP	%	85		70-130	Pass	
Ethylbenzene	S12-De11018	CP	%	97		70-130	Pass	
Total m+p-Xylenes	S12-De11018	CP	%	101		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S12-De11018	CP	%	103		70-130	Pass	
Xylenes(ortho.meta and para)	S12-De11018	CP	%	102		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-De11018	CP	%	104		70-130	Pass	
TRH C6-C10	S12-De11018	CP	%	87		70-130	Pass	
TRH >C10-C16	S12-De11018	CP	%	93		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De11018	CP	%	94		70-130	Pass	
Acenaphthylene	S12-De11018	CP	%	88		70-130	Pass	
Anthracene	S12-De11018	CP	%	86		70-130	Pass	
Benz(a)anthracene	S12-De11018	CP	%	90		70-130	Pass	
Benzo(a)pyrene	S12-De11018	CP	%	102		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De11018	CP	%	103		70-130	Pass	
Benzo(g,h,i)perylene	S12-De11018	CP	%	96		70-130	Pass	
Chrysene	S12-De11018	CP	%	93		70-130	Pass	
Dibenz(a,h)anthracene	S12-De11018	CP	%	91		70-130	Pass	
Fluoranthene	S12-De11018	CP	%	92		70-130	Pass	
Fluorene	S12-De11018	CP	%	92		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-De11018	CP	%	95		70-130	Pass	
Naphthalene	S12-De11018	CP	%	91		70-130	Pass	
Phenanthrene	S12-De11018	CP	%	84		70-130	Pass	
Pyrene	S12-De11018	CP	%	93		70-130	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Zinc	S12-De11632	NCP	%	95		70-130	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	S12-De11019	CP	%	85		70-130	Pass	
Cadmium	S12-De11019	CP	%	77		70-130	Pass	
Chromium	S12-De11019	CP	%	96		70-130	Pass	
Copper	S12-De11019	CP	%	82		70-130	Pass	
Lead	S12-De11019	CP	%	104		70-130	Pass	
Mercury	S12-De11019	CP	%	99		70-130	Pass	
Nickel	S12-De11019	CP	%	78		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S12-De11036	CP	%	98		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
TRH >C10-C16	S12-De11036	CP	%	89		70-130	Pass	
Spike - % Recovery								
Polyaromatic Hydrocarbons (PAH)				Result 1				
Acenaphthene	S12-De11036	CP	%	93		70-130	Pass	
Acenaphthylene	S12-De11036	CP	%	90		70-130	Pass	
Anthracene	S12-De11036	CP	%	81		70-130	Pass	
Benz(a)anthracene	S12-De11036	CP	%	81		70-130	Pass	
Benzo(a)pyrene	S12-De11036	CP	%	91		70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De11036	CP	%	94		70-130	Pass	
Benzo(g,h,i)perylene	S12-De11036	CP	%	85		70-130	Pass	
Chrysene	S12-De11036	CP	%	92		70-130	Pass	
Dibenz(a,h)anthracene	S12-De11036	CP	%	86		70-130	Pass	
Fluoranthene	S12-De11036	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S12-De11036	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S12-De11036	CP	%	87			70-130	Pass	
Naphthalene	S12-De11036	CP	%	91			70-130	Pass	
Phenanthrene	S12-De11036	CP	%	82			70-130	Pass	
Pyrene	S12-De11036	CP	%	84			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-De11018	CP	mg/kg	< 10	< 10	<1	30%	Pass	
TRH C10-C14	S12-De11018	CP	mg/kg	< 50	< 50	15	30%	Pass	
TRH C15-C28	S12-De11018	CP	mg/kg	< 100	< 100	11	30%	Pass	
TRH C29-C36	S12-De11018	CP	mg/kg	< 100	< 100	19	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-De11018	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-De11018	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-De11018	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-De11018	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-De11018	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S12-De11018	CP	mg/kg	< 50	< 50	15	30%	Pass	
TRH >C16-C34	S12-De11018	CP	mg/kg	< 100	< 100	6.0	30%	Pass	
TRH >C34-C40	S12-De11018	CP	mg/kg	< 100	< 100	25	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De11018	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S12-De11018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S12-De11018	CP	mg/kg	< 2	2.1	170	30%	Fail	Q15
Cadmium	S12-De11018	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S12-De11018	CP	mg/kg	7.0	7.1	2.0	30%	Pass	
Copper	S12-De11018	CP	mg/kg	23	17	26	30%	Pass	
Lead	S12-De11018	CP	mg/kg	44	43	2.0	30%	Pass	
Mercury	S12-De11018	CP	mg/kg	0.07	0.06	10	30%	Pass	

Duplicate								
Metals M8				Result 1	Result 2	RPD		
Nickel	S12-De11018	CP	mg/kg	7.3	5.2	33	30%	Fail
Zinc	S12-De11018	CP	mg/kg	280	270	3.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S12-De11036	CP	mg/kg	< 10	< 10	<1	30%	Pass
TRH C10-C14	S12-De11036	CP	mg/kg	< 50	< 50	24	30%	Pass
TRH C15-C28	S12-De11036	CP	mg/kg	< 100	< 100	20	30%	Pass
TRH C29-C36	S12-De11036	CP	mg/kg	< 100	< 100	15	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Total m+p-Xylenes	S12-De11036	CP	mg/kg	< 1	< 1	<1	30%	Pass
o-Xylene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes(ortho.meta and para)	S12-De11036	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Total BTEX	S12-De11036	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD		
Naphthalene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S12-De11036	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10 less BTEX (F1)	S12-De11036	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S12-De11036	CP	mg/kg	< 50	< 50	30	30%	Pass
TRH >C16-C34	S12-De11036	CP	mg/kg	< 100	< 100	17	30%	Pass
TRH >C34-C40	S12-De11036	CP	mg/kg	< 100	< 100	4.0	30%	Pass
Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-De11036	CP	mg/kg	< 1	< 1	<1	30%	Pass
Benzo(g,h,i)perylene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S12-De11036	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Laura Schofield	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET31947/ 35127 / 1 - 5

Your ref : 363099

NATA Accreditation No: 14484

18 December 2012

MGT- Labmark Environmental Pty Ltd
Unit F3, Building F, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of five samples, forwarded by MGT- Labmark Environmental Pty Ltd on 17 December 2012, for analysis for asbestos.

1.Introduction: Five samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET31947 / 35127 / 1. 363099 - BH118 - 0.5 - 0.6m - De11018.**
Approx dimensions 7.0 cm x 7.0 cm x 2.25 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of sandstone and bitumen.
No asbestos detected.

Sample No. 2. ASET31947 / 35127 / 2. 363099 - BH118 - 1.0 - 1.1m - De11020.
Approx dimensions 7.0 cm x 7.0 cm x 2.2 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of cement and brick.
No asbestos detected.

Sample No. 3. ASET31947 / 35127 / 3. 363099 - BH122 - 0.5 - 0.6m - De11032.
Approx dimensions 5.0 cm x 5.0 cm x 1.25 cm
The sample consisted of a mixture of sandy soil, stones, sandstones and plant matter.
No asbestos detected.

Sample No. 4. ASET31947 / 35127 / 4. 363099 - BH123 - 0.08 - 0.18m - De11036.
Approx dimensions 7.0 cm x 6.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones and plant matter.
No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Sample No. 5. ASET31947 / 35127 / 5. 363099 - BH123 - 0.5 - 0.6m - De11038.

Approx dimensions 8.0 cm x 7.0 cm x 2.25 cm

The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of plaster, cement, coal like material and brick.

No asbestos detected.

Analysed and reported by,

A handwritten signature in black ink, appearing to read "Mahen De Silva", is written over a light blue grid background.

**Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier
Approved Signatory**



**This document is issued in accordance with
NATA's Accreditation requirements. Accredited
for compliance with ISO/IEC 17025.**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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coffey environments
SPECIALISTS IN ENVIRONMENTAL,
SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chotswood

Report Results to: Matthew Locke

Invoices to: Matthew Locke

Email: matthew_locke @coffey.com

Email: matthew_locke @coffey.com

Mobile:

Phone:

Project No: GEOTLCON24303AF

Task No:

Project Name: SICEEP

Laboratory:

Sampler's Name: Priya Dass

Project Manager: Matthew Locke

Special Instructions:

TEST TPH/BTEX/PAH AS SUITE B4 / METALS AS SUITE M8

Analysis Request Section

Project No: GEO11C0N24 SUSHI		Laboratory: METLabMark		Project Manager: Matthew Locke	
Project Name: SICEEP		Sample Date: 13/12/12		Matrix (Soil...etc): Soil	
Implementer's Name: Priya Dass		Sample ID: BH123A (0.08-0.18m)		Container Type & Preservative*: Standard	
Special Instructions: TEST TPH BTEX PAH AS SUITE B4 / METALS AS SUITE M8		Sample ID: BH123A (0.5-0.6m)		Container Type & Preservative*: Standard	
		QC23		Container Type & Preservative*: Standard	
		QC23A		Container Type & Preservative*: Standard	
		BH123A (1.0-1.1m)		Container Type & Preservative*: Standard	
		BH123A (1.0-1.1m) A		Container Type & Preservative*: Standard	
		BH123A (1.5-1.6m)		Container Type & Preservative*: Standard	
		BH123A (1.5-1.6m) A		Container Type & Preservative*: Standard	
		BH123A (2.0-2.1m)		Container Type & Preservative*: Standard	
		BH123A (2.5-2.6m)		Container Type & Preservative*: Standard	
		BH123A (3.0-3.1m)		Container Type & Preservative*: Standard	
		BH123A (3.0-3.1m) A		Container Type & Preservative*: Standard	
		BH123A (3.5-3.6m)		Container Type & Preservative*: Standard	
		QC24		Container Type & Preservative*: Standard	
		BH123A (4.0-4.1m)		Container Type & Preservative*: Standard	
		BH123A (4.4-4.5m)		Container Type & Preservative*: Standard	
		BH122A (0.05-0.15m)		Container Type & Preservative*: Standard	
		BH122A (0.05-0.15m) A		Container Type & Preservative*: Standard	

No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T.A.T (specify)	TPH BTEX/PAH (B4)	Asbestos (M8)	NOVOC	TCAP-PAHs (low level)	TCAP-PAHs (high level)	ASAP-PAHs (low level)	ASAP-PAHs (high level)	Hold	NOTES
	BH123A (0.08-0.18m)	13/12/12		Soil		Standard	X	X	X	X	X	X	X	X	Send to Envirolab
	BH123A (0.5-0.6m)						X	X	X	X	X	X	X	X	
	QC23						X	X	X	X	X	X	X	X	
	QC23A						X	X	X	X	X	X	X	X	
	BH123A (1.0-1.1m)						X	X	X	X	X	X	X	X	
	BH123A (1.0-1.1m) A						X	X	X	X	X	X	X	X	
	BH123A (1.5-1.6m)						X	X	X	X	X	X	X	X	
	BH123A (1.5-1.6m) A						X	X	X	X	X	X	X	X	
	BH123A (2.0-2.1m)						X	X	X	X	X	X	X	X	
	BH123A (2.5-2.6m)						X	X	X	X	X	X	X	X	
	BH123A (3.0-3.1m)						X	X	X	X	X	X	X	X	
	BH123A (3.0-3.1m) A						X	X	X	X	X	X	X	X	
	BH123A (3.5-3.6m)						X	X	X	X	X	X	X	X	
	QC24						X	X	X	X	X	X	X	X	
	BH123A (4.0-4.1m)						X	X	X	X	X	X	X	X	
	BH123A (4.4-4.5m)						X	X	X	X	X	X	X	X	
	BH122A (0.05-0.15m)						X	X	X	X	X	X	X	X	
	BH122A (0.05-0.15m) A						X	X	X	X	X	X	X	X	

RELINQUISHED BY

Name: Priya Dass

Date: 14/12/12

Company: Coffey Environments

Time: 11:15 a.m

Name:

Date:

Company:

Time:

RECEIVED BY

Name: SOE

Date: 14/12/12

Company: MGT Labbrack

Time: 11-15 a.m

Name:

Date:

Company:

Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition ☐All Documentation is in Proper Order ☐Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

Coffey Environments

Version: 4

Issue Date: 24/08/2012

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Consigning Office: Chatswood

 SPECIALISTS IN ENVIRONMENTAL,
SOCIAL AND SAFETY PERFORMANCE

Report Results to: Matthew Locke

Mobile:

Email: matthew.locke@coffey.com

Invoices to: Matthew Locke

Phone:

Email: matthew.locke@coffey.com

Task No:

Project No: GEOTLCON24 303AF

Laboratory:

MATLABMark

Project Manager: Matthew Locke

Sampler's Name: Priya Dass

Special Instructions:

AS PER PAGE 1

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	Analysis Request Section
BH122A	(0.5-0.6m)	13/12/12		Soil		Standard	TPH, BTEX, PAH (B), Metals (M), VOC, PCBs, ASLP - Metals (low level), ASLP - PAHs (low level), ASLP - PCBs (low level), Hold
BH122A	(1.0-1.1m)						
BH122A	(1.5-1.6m)						
BH122A	(1.5-1.6m)_A						
BH122A	(2.0-2.1m)						
QC25							
QC25A							
BH122A	(2.5-2.6m)						
BH122A	(3.0-3.1m)						
BH122A	(3.0-3.1m)_A						
BH122A	(3.4-3.5m)						
BH122A	(3.9-4.0m)						
BH124	(0.01-0.11m)	14/12/12					
BH124	(0.01-0.11m)_A						
BH124	(0.5-0.6m)						
BH124	(1.0-1.1m)						
BH124	(1.5-1.6m)						
BH124	(1.5-1.6m)_A						

NOTES

Send to EnviroLab

RELINQUISHED BY

RECEIVED BY

Name: Priya Dass

Date: 14/12/12

Name: SUE

Date: 14/12/13

Company: Coffey Environments

Time: 11:15am

Company: MGT Labmark

Time: 11:15am

Name:

Date:

Name:

Date:

Company:

Time:

Company:

Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition

All Documentation is in Proper Order

Samples Received Properly Chilled

Lab. Ref/Batch No.

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

Coffey Environments

Version: 4

Issue Date: 24/08/2012

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Issue Date: 24/08/2012

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**

Contact name: **Matthew Locke**
Client job number: **SICEEP GEOTLCOV24303AF**
COC number: **103791-93**
Turn around time: **5 Day**
Date/Time received: **Dec 14, 2012 3:05 PM**
mgt-LabMark reference: **363351**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by mgt-LabMark
Sample Receipt : 16.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Asbestos conducted by ASET | Samples DUP23A & DUP25A sent to Envirolab as requested

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

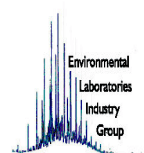
mgt-LabMark Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

35Years of Environmental Analysis & Experience – fully Australian Owned



Certificate of Analysis

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Matthew Locke

Report 363351-S
Client Reference SICEEP GEOTLCOV24303AF
Received Date Dec 14, 2012

Client Sample ID			BH123A_(0.5-0.6m)	QC23	BH123A_(1.0-1.1m)	BH123A_(1.0-1.1m)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12775	S12-De12776	S12-De12777	S12-De12778
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	110	140
TRH C29-C36	100	mg/kg	< 100	< 100	100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	210	140
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	93	90	94	91
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	180	180
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.5	2.8
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.7	2.9
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	2.7	4.6
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	1.1	1.8
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.4	2.7
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	< 0.5	2.5	5.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.9	1.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	2.1	0.6

Client Sample ID			BH123A_(0.5-0.6m)	QC23	BH123A_(1.0-1.1m)	BH123A_(1.0-1.1m)_A
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12775	S12-De12776	S12-De12777	S12-De12778
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	0.8	< 0.5	1.1	4.8
Pyrene	0.5	mg/kg	0.9	< 0.5	2.6	5.5
Total PAH	1	mg/kg	2.6	< 1	18	36
2-Fluorobiphenyl (surr.)	1	%	93	96	92	108
p-Terphenyl-d14 (surr.)	1	%	99	81	76	94
Heavy Metals						
Arsenic	2	mg/kg	7.6	7.2	6.4	6.1
Cadmium	0.4	mg/kg	0.4	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	10	10	< 5	< 5
Copper	5	mg/kg	50	55	32	26
Lead	5	mg/kg	69	82	47	36
Mercury	0.05	mg/kg	0.12	0.13	0.11	0.10
Nickel	5	mg/kg	11	11	5.3	< 5
Zinc	5	mg/kg	110	140	69	51
% Moisture	0.1	%	7.6	12	8.9	7.7
Asbestos			see attached	-	see attached	-

Client Sample ID			BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH122A_(0.5-0.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12781	S12-De12783	S12-De12787	S12-De12791
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	94	86	83	96
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH122A_(0.5-0.6m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12781	S12-De12783	S12-De12787	S12-De12791
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	1.0	< 1	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	98	101	91	102
p-Terphenyl-d14 (surr.)	1	%	82	85	77	84
Heavy Metals						
Arsenic	2	mg/kg	9.3	6.9	2.5	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.7	12	< 5	7.5
Copper	5	mg/kg	46	9.4	< 5	29
Lead	5	mg/kg	40	< 5	< 5	47
Mercury	0.05	mg/kg	0.13	0.07	< 0.05	0.06
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	41	13	< 5	55
% Moisture	0.1	%	13	14	23	5.7
Asbestos			-	-	-	see attached

Client Sample ID			BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)_A	BH122A_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12792	S12-De12793	S12-De12794	S12-De12795
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	-	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	-	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	-	180	< 100	< 100
TRH C29-C36	100	mg/kg	-	< 100	< 100	< 100

Client Sample ID			BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)_A	BH122A_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12792	S12-De12793	S12-De12794	S12-De12795
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-36 (Total)	100	mg/kg	-	180	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	-	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	-	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	-	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	-	94	94	92
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	230	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	0.7	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	2.2	1.3	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	2.1	1.2	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	-	3.5	2.1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	-	1.1	0.7	< 0.5
Chrysene	0.5	mg/kg	-	2.0	1.1	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	4.2	2.4	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	1.0	0.6	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	2.7	1.4	0.8
Pyrene	0.5	mg/kg	-	4.0	2.2	< 0.5
Total PAH	1	mg/kg	-	24	13	< 1
2-Fluorobiphenyl (surr.)	1	%	-	88	99	96
p-Terphenyl-d14 (surr.)	1	%	-	83	95	92
Heavy Metals						
Arsenic	2	mg/kg	-	4.5	5.2	5.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	11	11	11
Copper	5	mg/kg	-	26	26	48
Lead	5	mg/kg	-	52	56	140
Mercury	0.05	mg/kg	-	0.16	0.12	0.35
Nickel	5	mg/kg	-	< 5	< 5	< 5
Zinc	5	mg/kg	-	56	63	81
% Moisture	0.1	%	-	7.9	7.6	8.6

Client Sample ID			BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)_A	BH122A_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12792	S12-De12793	S12-De12794	S12-De12795
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 13, 2012
Test/Reference	LOR	Unit				
Asbestos			see attached	-	-	-

Client Sample ID			QC25	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH124_(0.01-0.11m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12796	S12-De12798	S12-De12800	S12-De12802
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	-
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	-
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	-
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	-
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	-
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	-
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
4-Bromofluorobenzene (surr.)	1	%	91	89	89	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			QC25	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH124_(0.01-0.11m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12796	S12-De12798	S12-De12800	S12-De12802
Date Sampled			Dec 13, 2012	Dec 13, 2012	Dec 13, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	0.7	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH	1	mg/kg	< 1	< 1	< 1	-
2-Fluorobiphenyl (surr.)	1	%	94	95	93	-
p-Terphenyl-d14 (surr.)	1	%	88	86	89	-
Heavy Metals						
Arsenic	2	mg/kg	3.2	< 2	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	7.1	7.6	-	-
Copper	5	mg/kg	50	6.9	-	-
Lead	5	mg/kg	120	9.3	-	-
Mercury	0.05	mg/kg	0.35	0.11	-	-
Nickel	5	mg/kg	< 5	< 5	-	-
Zinc	5	mg/kg	80	< 5	-	-
% Moisture	0.1	%	8.5	13	13	-
Asbestos			-	-	-	see attached

Client Sample ID			BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH125_(2.5-2.6m)	QC26
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12804	S12-De12806	S12-De12809	S12-De12810
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total m+p-Xylenes	1	mg/kg	< 1	< 1	-	-
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	-	-
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	-	-
4-Bromofluorobenzene (surr.)	1	%	93	89	-	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH125_(2.5-2.6m)	QC26
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12804	S12-De12806	S12-De12809	S12-De12810
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromo-3-chloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	5	mg/kg	-	-	< 5	-
2-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
2-Hexanone (MBK)	5	mg/kg	-	-	< 5	-
2-Pentanone	5	mg/kg	-	-	< 5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	5	mg/kg	-	-	< 5	-
Benzene	0.5	mg/kg	-	-	< 0.5	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
n-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
n-Propylbenzene	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.5	mg/kg	-	-	< 0.5	-
p-Isopropyltoluene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH125_(2.5-2.6m)	QC26
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12804	S12-De12806	S12-De12809	S12-De12810
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Volatile Organic Compounds (VOC)						
sec-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
tert-Butylbenzene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.5	mg/kg	-	-	< 0.5	-
Total m+p-Xylenes	1	mg/kg	-	-	< 1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl acetate	5	mg/kg	-	-	< 5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Toluene-d8 (surr.)	1	%	-	-	96	-
4-Bromofluorobenzene (surr.)	1	%	-	-	110	-
1.2-Dichloroethane-d4 (surr.)	1	%	-	-	101	-
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	1.1	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	1.0	< 0.5	-	-
Pyrene	0.5	mg/kg	1.0	< 0.5	-	-
Total PAH	1	mg/kg	4.1	< 1	-	-
2-Fluorobiphenyl (surr.)	1	%	98	80	-	-
p-Terphenyl-d14 (surr.)	1	%	92	76	-	-
Semivolatile Organic Compounds (SVOC)						
2-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Methylphenol (o-Cresol)	0.5	mg/kg	-	-	< 0.5	-
2-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
2-Nitroaniline	1	mg/kg	-	-	< 1	-
2-Nitrophenol	0.5	mg/kg	-	-	< 0.5	-
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	-	-	< 1	-
3-Methylcholanthrene	0.5	mg/kg	-	-	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	-	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	0.5	mg/kg	-	-	< 0.5	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH125_(2.5-2.6m)	QC26
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12804	S12-De12806	S12-De12809	S12-De12810
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
4-Nitrophenol	0.5	mg/kg	-	-	< 0.5	-
4,4'-DDD	0.5	mg/kg	-	-	< 0.5	-
4,4'-DDE	0.5	mg/kg	-	-	< 0.5	-
4,4'-DDT	1	mg/kg	-	-	< 1	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Acetophenone	0.5	mg/kg	-	-	< 0.5	-
Aldrin	0.5	mg/kg	-	-	< 0.5	-
Aniline	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	< 0.5	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	-	< 5	-
Butyl benzyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Chlorpyrifos	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Coumaphos	0.5	mg/kg	-	-	< 0.5	-
d-BHC	0.5	mg/kg	-	-	< 0.5	-
Demeton-O	0.5	mg/kg	-	-	< 0.5	-
Demeton-S	0.5	mg/kg	-	-	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Diazinon	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	-	< 0.5	-
Dichlorvos	0.5	mg/kg	-	-	< 0.5	-
Dieldrin	0.5	mg/kg	-	-	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethoate	0.5	mg/kg	-	-	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Diphenylamine	0.5	mg/kg	-	-	< 0.5	-
Disulfoton	0.5	mg/kg	-	-	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	-	< 0.5	-
Endrin	0.5	mg/kg	-	-	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	-	< 0.5	-
Endrin ketone	0.5	mg/kg	-	-	< 0.5	-
Ethoprop	0.5	mg/kg	-	-	< 0.5	-
Fenitrothion	0.5	mg/kg	-	-	< 0.5	-
Fensulfothion	0.5	mg/kg	-	-	< 0.5	-
Fenthion	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	-	< 0.5	-
Heptachlor	0.5	mg/kg	-	-	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH125_(2.5-2.6m)	QC26
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12804	S12-De12806	S12-De12809	S12-De12810
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Hexachlorocyclopentadiene	1	mg/kg	-	-	< 2	-
Hexachloroethane	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Malathion	0.5	mg/kg	-	-	< 0.5	-
Methoxychlor	0.5	mg/kg	-	-	< 0.5	-
Methyl azinphos	0.5	mg/kg	-	-	< 0.5	-
Methyl parathion	0.5	mg/kg	-	-	< 0.5	-
Mevinphos	0.5	mg/kg	-	-	< 0.5	-
Monocrotophos	10	mg/kg	-	-	< 10	-
N-Nitrosodibutylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Parathion	0.5	mg/kg	-	-	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Phorate	0.5	mg/kg	-	-	< 0.5	-
Profenofos	0.5	mg/kg	-	-	< 0.5	-
Prothiofos	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Ronnel	0.5	mg/kg	-	-	< 0.5	-
Stirophos	0.5	mg/kg	-	-	< 0.5	-
Trichloronate	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	88	-
Nitrobenzene-d5 (surr.)	1	%	-	-	92	-
p-Terphenyl-d14 (surr.)	1	%	-	-	104	-
2-Fluorobiphenyl (surr.)	1	%	-	-	99	-
Heavy Metals						
Arsenic	2	mg/kg	13	13	6.8	-
Cadmium	0.4	mg/kg	1.0	0.6	0.4	-
Chromium	5	mg/kg	12	11	8.5	-
Copper	5	mg/kg	92	140	59	-
Lead	5	mg/kg	180	120	64	-
Mercury	0.05	mg/kg	0.22	0.26	0.23	-
Nickel	5	mg/kg	16	12	20	-
Zinc	5	mg/kg	240	170	94	-
% Moisture	0.1	%	7.0	9.8	12	13
Asbestos			see attached	-	-	-

Client Sample ID			BH124_(2.9-3.0m)	BH124_(2.9-3.0m)_A	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12811	S12-De12812	S12-De12813	S12-De12814
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	620	110	630	< 50
TRH C15-C28	100	mg/kg	3800	1300	2700	< 100
TRH C29-C36	100	mg/kg	350	220	220	160
TRH C10-36 (Total)	100	mg/kg	4800	1600	3600	160
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	1600	300	1300	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	1600	300	1300	< 50
TRH >C16-C34	100	mg/kg	2700	1100	1900	140
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organic Compounds (VOC)						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	5	mg/kg	< 5	-	< 5	< 5
2-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Hexanone (MBK)	5	mg/kg	< 5	-	< 5	< 5
2-Pentanone	5	mg/kg	< 5	-	< 5	< 5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	-	< 5	< 5
Benzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH124_(2.9-3.0m)	BH124_(2.9-3.0m)_A	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12811	S12-De12812	S12-De12813	S12-De12814
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Volatile Organic Compounds (VOC)						
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
n-Butylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
n-Propylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
p-Isopropyltoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
sec-Butylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
tert-Butylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	-	< 1	< 1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl acetate	5	mg/kg	< 5	-	< 5	< 5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene-d8 (surr.)	1	%	95	-	97	100
4-Bromofluorobenzene (surr.)	1	%	106	-	107	112
1.2-Dichloroethane-d4 (surr.)	1	%	103	-	102	103
Semivolatile Organic Compounds (SVOC)						
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Naphthylamine	0.5	mg/kg	< 0.5	-	< 0.65	< 0.5
2-Nitroaniline	1	mg/kg	< 1	-	< 1	< 1
2-Nitrophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	< 1	-	< 1	< 1
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Nitrophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4,4'-DDD	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4,4'-DDE	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4,4'-DDT	1	mg/kg	< 1	-	< 1	< 1
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH124_(2.9-3.0m)	BH124_(2.9-3.0m)_A	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12811	S12-De12812	S12-De12813	S12-De12814
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Aniline	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	< 5	< 5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorpyrifos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Coumaphos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
d-BHC	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Demeton-O	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Demeton-S	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Diazinon	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	-	0.5	< 0.5
Dichlorvos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dimethoate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Disulfoton	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethoprop	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fenitrothion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fensulfothion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fenthion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	0.9	-	1.4	< 0.5
g-BHC (Lindane)	0.5	mg/kg	1.3	-	1.0	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Hexachlorocyclopentadiene	1	mg/kg	< 2	-	< 2	< 1
Hexachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Malathion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Methyl azinphos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Methyl parathion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Mevinphos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH124_(2.9-3.0m)	BH124_(2.9-3.0m)_A	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-De12811	S12-De12812	S12-De12813	S12-De12814
Date Sampled			Dec 14, 2012	Dec 14, 2012	Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit				
Semivolatile Organic Compounds (SVOC)						
Monocrotophos	10	mg/kg	< 10	-	< 10	< 10
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Parathion	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Phenanthrene	0.5	mg/kg	1.3	-	< 0.5	< 0.5
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phorate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Profenofos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Prothiofos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ronnel	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Stirophos	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloronate	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	96	-	98	108
Nitrobenzene-d5 (surr.)	1	%	95	-	95	114
p-Terphenyl-d14 (surr.)	1	%	106	-	105	124
2-Fluorobiphenyl (surr.)	1	%	104	-	104	119
% Moisture	0.1	%	13	13	11	14

Client Sample ID			BH124_(4.6-4.8m)	BH124_(4.6-4.8m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De12816	S12-De12817
Date Sampled			Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	10	mg/kg	< 10	< 10
TRH C10-C14	50	mg/kg	660	630
TRH C15-C28	100	mg/kg	2600	3200
TRH C29-C36	100	mg/kg	310	320
TRH C10-36 (Total)	100	mg/kg	3600	4200
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	1300	1600
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	1300	1600
TRH >C16-C34	100	mg/kg	2000	2200
TRH >C34-C40	100	mg/kg	< 100	< 100

Client Sample ID			BH124_(4.6-4.8m)	BH124_(4.6-4.8m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De12816	S12-De12817
Date Sampled			Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit		
Volatile Organic Compounds (VOC)				
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5
2-Butanone (MEK)	5	mg/kg	< 5	< 5
2-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5
2-Hexanone (MBK)	5	mg/kg	< 5	< 5
2-Pentanone	5	mg/kg	< 5	< 5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	< 5
Benzene	0.5	mg/kg	< 0.5	< 0.5
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5
n-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5
n-Propylbenzene	0.5	mg/kg	< 0.5	< 0.5
o-Xylene	0.5	mg/kg	< 0.5	< 0.5
p-Isopropyltoluene	0.5	mg/kg	< 0.5	< 0.5
sec-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5
Styrene	0.5	mg/kg	< 0.5	< 0.5
tert-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			BH124_(4.6-4.8m)	BH124_(4.6-4.8m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De12816	S12-De12817
Date Sampled			Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit		
Volatile Organic Compounds (VOC)				
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5
Vinyl acetate	5	mg/kg	< 5	< 5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5
Toluene-d8 (surr.)	1	%	100	102
4-Bromofluorobenzene (surr.)	1	%	108	109
1.2-Dichloroethane-d4 (surr.)	1	%	109	105
Semivolatile Organic Compounds (SVOC)				
2-Chloronaphthalene	0.5	mg/kg	< 0.5	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	< 0.5	< 0.5
2-Naphthylamine	0.5	mg/kg	0.8	0.7
2-Nitroaniline	1	mg/kg	< 1	< 1
2-Nitrophenol	0.5	mg/kg	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	< 1	< 1
3-Methylcholanthrene	0.5	mg/kg	< 0.5	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	< 0.5	< 0.5
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	< 0.5
4-Nitrophenol	0.5	mg/kg	< 0.5	< 0.5
4,4'-DDD	0.5	mg/kg	< 0.5	< 0.5
4,4'-DDE	0.5	mg/kg	< 0.5	< 0.5
4,4'-DDT	1	mg/kg	< 1	< 1
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	< 0.5
Aldrin	0.5	mg/kg	< 0.5	< 0.5
Aniline	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	< 0.5
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	< 5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Chlorpyrifos	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Coumaphos	0.5	mg/kg	< 0.5	< 0.5
d-BHC	0.5	mg/kg	< 0.5	< 0.5
Demeton-O	0.5	mg/kg	< 0.5	< 0.5
Demeton-S	0.5	mg/kg	< 0.5	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			BH124_(4.6-4.8m)	BH124_(4.6-4.8m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De12816	S12-De12817
Date Sampled			Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit		
Semivolatile Organic Compounds (SVOC)				
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Diazinon	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	< 0.5
Dichlorvos	0.5	mg/kg	< 0.5	< 0.5
Dieldrin	0.5	mg/kg	< 0.5	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Dimethoate	0.5	mg/kg	< 0.5	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	< 0.5
Disulfoton	0.5	mg/kg	< 0.5	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	< 0.5
Endrin	0.5	mg/kg	< 0.5	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	< 0.5
Ethoprop	0.5	mg/kg	< 0.5	< 0.5
Fenitrothion	0.5	mg/kg	< 0.5	< 0.5
Fensulfothion	0.5	mg/kg	< 0.5	< 0.5
Fenthion	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	1.1	1.2
g-BHC (Lindane)	0.5	mg/kg	0.9	1.3
Heptachlor	0.5	mg/kg	< 0.5	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5
Hexachlorocyclopentadiene	1	mg/kg	< 2	< 2
Hexachloroethane	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Malathion	0.5	mg/kg	< 0.5	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	< 0.5
Methyl azinphos	0.5	mg/kg	< 0.5	< 0.5
Methyl parathion	0.5	mg/kg	< 0.5	< 0.5
Mevinphos	0.5	mg/kg	< 0.5	< 0.5
Monocrotophos	10	mg/kg	< 10	< 10
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	< 0.5
Parathion	0.5	mg/kg	< 0.5	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	< 1
Phenanthrene	0.5	mg/kg	1.6	1.9
Phenol	0.5	mg/kg	< 0.5	< 0.5
Phorate	0.5	mg/kg	< 0.5	< 0.5
Profenofos	0.5	mg/kg	< 0.5	< 0.5
Prothiofos	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			BH124_(4.6-4.8m)	BH124_(4.6-4.8m)_A
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			S12-De12816	S12-De12817
Date Sampled			Dec 14, 2012	Dec 14, 2012
Test/Reference	LOR	Unit		
Semivolatile Organic Compounds (SVOC)				
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Ronnel	0.5	mg/kg	< 0.5	< 0.5
Stiophos	0.5	mg/kg	< 0.5	< 0.5
Trichloronate	0.5	mg/kg	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	108	93
Nitrobenzene-d5 (surr.)	1	%	110	89
p-Terphenyl-d14 (surr.)	1	%	117	100
2-Fluorobiphenyl (surr.)	1	%	116	100
% Moisture	0.1	%	14	14

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 19, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 18, 2012	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Dec 19, 2012	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	Dec 19, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Volatile Organic Compounds (VOC)	Sydney	Dec 18, 2012	14 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Semivolatile Organic Compounds (SVOC)	Sydney	Dec 19, 2012	14 Day
- Method: E017 Semivolatile Organic Compounds (SVOC)			
Metals M8	Sydney	Dec 18, 2012	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Dec 18, 2012	28 Day
- Method: E005 Moisture Content			

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Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Client Job No.: SICEEP GEOTLCOV24303AF

Order No.:
Report #: 363351
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Dec 14, 2012 3:05 PM
Due: Dec 21, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
BH123A_(0.08-0.18m)	Dec 13, 2012		Soil	S12-De12774			X					
BH123A_(0.5-0.6m)	Dec 13, 2012		Soil	S12-De12775	X	X		X		X		
QC23	Dec 13, 2012		Soil	S12-De12776	X			X		X		
BH123A_(1.0-1.1m)	Dec 13, 2012		Soil	S12-De12777	X	X		X		X		
BH123A_(1.0-1.1m)_A	Dec 13, 2012		Soil	S12-De12778	X			X		X		
BH123A_(1.5-1.6m)	Dec 13, 2012		Soil	S12-De12779			X					

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH123A_(1.5-1.6m)_A	Dec 13, 2012		Soil	S12-De12780			X					
BH123A_(2.0-2.1m)	Dec 13, 2012		Soil	S12-De12781	X			X		X		
BH123A_(2.5-2.6m)	Dec 13, 2012		Soil	S12-De12782			X					
BH123A_(3.0-3.1m)	Dec 13, 2012		Soil	S12-De12783	X			X		X		
BH123A_(3.0-3.1m)_A	Dec 13, 2012		Soil	S12-De12784			X					
BH123A_(3.5-3.6m)	Dec 13, 2012		Soil	S12-De12785			X					
QC24	Dec 13, 2012		Soil	S12-De12786			X					

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH123A_(4.0-4.1m)	Dec 13, 2012		Soil	S12-De12787	X			X		X		
BH123A_(4.4-4.5m)	Dec 13, 2012		Soil	S12-De12788			X					
BH122A_(0.05-0.15m)	Dec 13, 2012		Soil	S12-De12789			X					
BH122A_(0.05-0.15m)_A	Dec 13, 2012		Soil	S12-De12790			X					
BH122A_(0.5-0.6m)	Dec 13, 2012		Soil	S12-De12791	X	X		X		X		
BH122A_(1.0-1.1m)	Dec 13, 2012		Soil	S12-De12792		X						
BH122A_(1.5-1.6m)	Dec 13, 2012		Soil	S12-De12793	X			X		X		

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH122A_(1.5-1.6m)_A	Dec 13, 2012		Soil	S12-De12794	X			X		X		
BH122A_(2.0-2.1m)	Dec 13, 2012		Soil	S12-De12795	X			X		X		
QC25	Dec 13, 2012		Soil	S12-De12796	X			X		X		
BH122A_(2.5-2.6m)	Dec 13, 2012		Soil	S12-De12797			X					
BH122A_(3.0-3.1m)	Dec 13, 2012		Soil	S12-De12798	X			X		X		
BH122A_(3.0-3.1m)_A	Dec 13, 2012		Soil	S12-De12799			X					
BH122A_(3.4-3.5m)	Dec 13, 2012		Soil	S12-De12800	X					X		

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH122A_(3.9-4.0m)_A	Dec 13, 2012		Soil	S12-De12801			X					
BH124_(0.01-0.11m)	Dec 14, 2012		Soil	S12-De12802		X						
BH124_(0.01-0.11m)_A	Dec 14, 2012		Soil	S12-De12803			X					
BH124_(0.5-0.6m)	Dec 14, 2012		Soil	S12-De12804	X	X		X		X		
BH124_(1.0-1.1m)	Dec 14, 2012		Soil	S12-De12805			X					
BH124_(1.5-1.6m)	Dec 14, 2012		Soil	S12-De12806	X			X		X		
BH124_(1.5-1.6m)_A	Dec 14, 2012		Soil	S12-De12807			X					

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH124_(2.0-2.1m)	Dec 14, 2012		Soil	S12-De12808			X					
BH125_(2.5-2.6m)	Dec 14, 2012		Soil	S12-De12809	X			X	X		X	X
QC26	Dec 14, 2012		Soil	S12-De12810	X				X			
BH124_(2.9-3.0m)	Dec 14, 2012		Soil	S12-De12811	X				X		X	X
BH124_(2.9-3.0m) A	Dec 14, 2012		Soil	S12-De12812	X				X			
BH124_(3.4-3.5m)	Dec 14, 2012		Soil	S12-De12813	X				X		X	X
BH124_(3.8-3.9m)	Dec 14, 2012		Soil	S12-De12814	X				X		X	X

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Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Total Recoverable Hydrocarbons	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory						X						
BH124_(4.4-4.5m)	Dec 14, 2012		Soil	S12-De12815			X					
BH124_(4.6-4.8m)	Dec 14, 2012		Soil	S12-De12816	X				X		X	X
BH124_(4.6-4.8m) A	Dec 14, 2012		Soil	S12-De12817	X				X		X	X

mgt-LabMark Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
3. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 10			10	Pass	
TRH C10-C14	mg/kg	< 50			50	Pass	
TRH C15-C28	mg/kg	< 100			100	Pass	
TRH C29-C36	mg/kg	< 100			100	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 5			5	Pass	
2-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
2-Hexanone (MBK)	mg/kg	< 5			5	Pass	
2-Pentanone	mg/kg	< 5			5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 5			5	Pass	
Benzene	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
n-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
n-Propylbenzene	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
p-Isopropyltoluene	mg/kg	< 0.5			0.5	Pass	
sec-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
tert-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl acetate	mg/kg	< 5			5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)							
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.5			0.5	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 1			1	Pass	
2-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 1			1	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 0.5			0.5	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
4,4'-DDD	mg/kg	< 0.5			0.5	Pass	
4,4'-DDE	mg/kg	< 0.5			0.5	Pass	
4,4'-DDT	mg/kg	< 1			1	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 5			5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
Chlorpyrifos	mg/kg	< 0.5			0.5	Pass	
Coumaphos	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Demeton-O	mg/kg	< 0.5			0.5	Pass	
Demeton-S	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Diazinon	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dichlorvos	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethoate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Disulfoton	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
Ethoprop	mg/kg	< 0.5			0.5	Pass	
Fenitrothion	mg/kg	< 0.5			0.5	Pass	
Fensulfathion	mg/kg	< 0.5			0.5	Pass	
Fenthion	mg/kg	< 0.5			0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 1			1	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Malathion	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
Methyl azinphos	mg/kg	< 0.5			0.5	Pass	
Methyl parathion	mg/kg	< 0.5			0.5	Pass	
Mevinphos	mg/kg	< 0.5			0.5	Pass	
Monocrotophos	mg/kg	< 10			10	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Parathion	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenol	mg/kg	< 0.5			0.5	Pass	
Phorate	mg/kg	< 0.5			0.5	Pass	
Profenofos	mg/kg	< 0.5			0.5	Pass	
Prothiofos	mg/kg	< 0.5			0.5	Pass	
Ronnel	mg/kg	< 0.5			0.5	Pass	
Stirophos	mg/kg	< 0.5			0.5	Pass	
Trichloronate	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	99			70-130	Pass	
TRH C10-C14	%	111			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	%	100			70-130	Pass	
TRH C6-C10	%	108			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	%	107			75-125	Pass	
1.1-Dichloroethene	%	105			70-130	Pass	
1.1.1-Trichloroethane	%	107			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	101			70-130	Pass	
1.1.2-Trichloroethane	%	105			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	92			70-130	Pass	
1.2-Dibromoethane	%	107			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	106			70-130	Pass	
1.2-Dichloropropane	%	103			70-130	Pass	
1.2.3-Trichloropropane	%	106			70-130	Pass	
1.2.4-Trichlorobenzene	%	97			70-130	Pass	
1.2.4-Trimethylbenzene	%	106			70-130	Pass	
1.3-Dichlorobenzene	%	103			70-130	Pass	
1.3-Dichloropropane	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	%	105			70-130	Pass	
1.4-Dichlorobenzene	%	104			70-130	Pass	
2-Butanone (MEK)	%	108			70-130	Pass	
2-Chlorotoluene	%	105			70-130	Pass	
2-Hexanone (MBK)	%	105			70-130	Pass	
2-Pentanone	%	99			70-130	Pass	
4-Chlorotoluene	%	105			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	107			70-130	Pass	
Benzene	%	101			70-130	Pass	
Bromobenzene	%	106			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromodichloromethane	%	106			70-130	Pass	
Bromoform	%	100			70-130	Pass	
Bromomethane	%	118			70-130	Pass	
Carbon disulfide	%	106			70-130	Pass	
Carbon Tetrachloride	%	108			70-130	Pass	
Chlorobenzene	%	96			70-130	Pass	
Chloroethane	%	103			70-130	Pass	
Chloroform	%	102			70-130	Pass	
Chloromethane	%	103			70-130	Pass	
cis-1,2-Dichloroethene	%	106			70-130	Pass	
cis-1,3-Dichloropropene	%	101			70-130	Pass	
Dibromochloromethane	%	100			70-130	Pass	
Dichlorodifluoromethane	%	102			70-130	Pass	
Ethylbenzene	%	97			70-130	Pass	
Hexachlorobutadiene	%	104			70-130	Pass	
Isopropyl benzene (Cumene)	%	97			70-130	Pass	
Methylene Chloride	%	102			70-130	Pass	
n-Butylbenzene	%	105			70-130	Pass	
n-Propylbenzene	%	107			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
p-Isopropyltoluene	%	105			70-130	Pass	
sec-Butylbenzene	%	105			70-130	Pass	
Styrene	%	101			70-130	Pass	
tert-Butylbenzene	%	106			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
Toluene	%	103			70-130	Pass	
Total m+p-Xylenes	%	104			70-130	Pass	
trans-1,2-Dichloroethene	%	105			70-130	Pass	
trans-1,3-Dichloropropene	%	101			70-130	Pass	
Trichloroethene	%	102			70-130	Pass	
Trichlorofluoromethane	%	106			70-130	Pass	
Vinyl acetate	%	106			70-130	Pass	
Vinyl chloride	%	102			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	105			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	102			70-130	Pass	
Benzo(a)pyrene	%	96			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	102			70-130	Pass	
Benzo(g,h,i)perylene	%	94			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Dibenz(a,h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	105			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	108			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	99			70-130	Pass	
LCS - % Recovery							
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)							
2-Chlorophenol	%	91			70-130	Pass	
4-Chloro-3-methylphenol	%	86			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol				%	71			70-130	Pass	
Chlorpyrifos				%	97			70-130	Pass	
Coumaphos				%	93			70-130	Pass	
Demeton-O				%	99			70-130	Pass	
Demeton-S				%	95			70-130	Pass	
Diazinon				%	96			70-130	Pass	
Dichlorvos				%	105			70-130	Pass	
Dimethoate				%	101			70-130	Pass	
Disulfoton				%	96			70-130	Pass	
Ethoprop				%	98			70-130	Pass	
Fenitrothion				%	93			70-130	Pass	
Fensulfothion				%	95			70-130	Pass	
Fenthion				%	98			70-130	Pass	
Malathion				%	97			70-130	Pass	
Methyl azinphos				%	101			70-130	Pass	
Methyl parathion				%	99			70-130	Pass	
Mevinphos				%	101			70-130	Pass	
Monocrotophos				%	104			70-130	Pass	
N-Nitrosodipropylamine				%	71			70-130	Pass	
Parathion				%	96			70-130	Pass	
Pentachlorophenol				%	70			70-130	Pass	
Phenol				%	97			70-130	Pass	
Phorate				%	98			70-130	Pass	
Profenofos				%	95			70-130	Pass	
Prothiofos				%	96			70-130	Pass	
Ronnell				%	99			70-130	Pass	
Stirophos				%	96			70-130	Pass	
Trichloronate				%	96			70-130	Pass	
LCS - % Recovery										
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury										
Arsenic				%	88			70-130	Pass	
Cadmium				%	90			70-130	Pass	
Chromium				%	90			70-130	Pass	
Copper				%	87			70-130	Pass	
Lead				%	93			70-130	Pass	
Mercury				%	93			70-130	Pass	
Nickel				%	89			70-130	Pass	
Zinc				%	107			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9	S12-De12775	CP		%	98			70-130	Pass	
Spike - % Recovery										
BTEX					Result 1					
Benzene	S12-De12775	CP		%	102			70-130	Pass	
Toluene	S12-De12775	CP		%	93			70-130	Pass	
Ethylbenzene	S12-De12775	CP		%	92			70-130	Pass	
Total m+p-Xylenes	S12-De12775	CP		%	95			70-130	Pass	
o-Xylene	S12-De12775	CP		%	93			70-130	Pass	
Xylenes(ortho.meta and para)	S12-De12775	CP		%	94			70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					Result 1					
Naphthalene	S12-De12775	CP		%	79			70-130	Pass	
TRH C6-C10	S12-De12775	CP		%	106			70-130	Pass	
Spike - % Recovery										