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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	95			70-130	Pass	
Acenaphthylene	%	81			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	78			70-130	Pass	
Cadmium	%	86			70-130	Pass	
Chromium	%	85			70-130	Pass	
Copper	%	95			70-130	Pass	
Lead	%	85			70-130	Pass	
Mercury	%	101			70-130	Pass	
Nickel	%	89			70-130	Pass	
Zinc	%	92			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	S13-My21497	CP	%	91			70-130	Pass	
TRH C10-C14	S13-My23302	NCP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My21497	CP	%	93			70-130	Pass	
Toluene	S13-My21497	CP	%	95			70-130	Pass	
Ethylbenzene	S13-My21497	CP	%	96			70-130	Pass	
m&p-Xylenes	S13-My21497	CP	%	95			70-130	Pass	
o-Xylene	S13-My21497	CP	%	95			70-130	Pass	
Xylenes - Total	S13-My21497	CP	%	95			70-130	Pass	

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	S13-My21497	CP	%	100			70-130	Pass	
TRH C6-C10	S13-My21497	CP	%	91			70-130	Pass	
TRH >C10-C16	S13-My23302	NCP	%	130			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My21299	NCP	%	98			70-130	Pass	
Acenaphthylene	S13-My21299	NCP	%	86			70-130	Pass	
Anthracene	S13-My21299	NCP	%	98			70-130	Pass	
Benz(a)anthracene	S13-My21299	NCP	%	96			70-130	Pass	
Benzo(a)pyrene	S13-My21299	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	%	82			70-130	Pass	
Chrysene	S13-My21299	NCP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	%	87			70-130	Pass	
Fluoranthene	S13-My21299	NCP	%	97			70-130	Pass	
Fluorene	S13-My21299	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	%	88			70-130	Pass	
Naphthalene	S13-My21299	NCP	%	97			70-130	Pass	
Phenanthrene	S13-My21299	NCP	%	101			70-130	Pass	
Pyrene	S13-My21299	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My21500	CP	%	98			70-130	Pass	
Cadmium	S13-My21500	CP	%	96			70-130	Pass	
Chromium	S13-My21500	CP	%	91			70-130	Pass	
Copper	S13-My21500	CP	%	97			70-130	Pass	
Lead	S13-My21500	CP	%	102			70-130	Pass	
Mercury	S13-My21500	CP	%	105			70-130	Pass	
Nickel	S13-My21500	CP	%	87			70-130	Pass	
Zinc	S13-My21500	CP	%	78			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	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My21539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My21497	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My21497	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My21497	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My21539	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My21539	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My21500	CP	mg/kg	< 2	2.9	64	30%	Fail	Q15
Cadmium	S13-My21500	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My21500	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S13-My21500	CP	mg/kg	17	20	18	30%	Pass	
Lead	S13-My21500	CP	mg/kg	19	22	13	30%	Pass	
Mercury	S13-My21500	CP	mg/kg	0.29	0.12	85	30%	Fail	
Nickel	S13-My21500	CP	mg/kg	16	10	44	30%	Fail	Q15
Zinc	S13-My21500	CP	mg/kg	59	48	21	30%	Pass	

Comments

Asbestos analysed by: ASET, NATA Accreditation no.14484, report reference ASET33494/36674/1-1

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	No

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 Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

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

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref: ASET33494/ 36674 / 1 - 1
Your ref: 380366
NATA Accreditation No: 14484

31 May 2013

Eurofins | mgt
Unit F3, 16 Mars Road
Lane Cove NSW 2066

Attn: Mr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification
This report presents the results of one sample, forwarded by Eurofins | mgt on 31 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was 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. ASET33494 / 36674 / 1. BH203 - 0.5-0.6 - My21497**
Approx dimensions 7.5 cm x 7.4 cm x 3.6 cm
The sample consisted of a mixture of soil and stones.
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

NATA
WORLD RECOGNISED ACCREDITATION

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

coffey

Chain of Custody

#380524.

No: 20983

Laboratory Quotation / Order No:

Job No: GEOTECH26003AH Sheet 1 of 1

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) MATT LOCKE matthew.locke@coffey.com	Courier Service: / Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
CHARLIE LEE COFFEY	27/5/13	2PM	SUE Eurofin MGT	27/5/13	2PM

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs = BTEX	Metals:	ABS Screening										Sample Condition on Receipt
Hold testing		Jar	BH206 0.1-0.2m																
till further		Zip Bag	BH206 0.1-0.2m																
instructions from		Jar	BH206 0.4-0.6																
Matt		Jar	BH206 0.4-0.6A																
		Jar	BH206 0.4-0.6 B																
		Zip Bag	BH206 0.4-0.6																
		Jar	BH206 0.9-1																
		Zip Bag	BH206 0.9-1																
		Jar	BH206 1.1-1.4																
		Zip Bag	BH206 ABS 1.1-1.4						X										

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

642209-06

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey **BLUE:** To be returned with results.

22° 27/5/13 4-50PM.

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	GEOTLCOV24303AH
COC number:	20983
Turn around time:	5 Day
Date/Time received:	May 27, 2013 2:00 PM
Eurofins | mgt reference:	**380524**

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 Eurofins | mgt Sample Receipt : 22 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

ASS pH sample not received frozen

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: GEOTLCOV24303AH

Order No.:
Report #: 380524
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 27, 2013 2:00 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					HOLD	Acid Sulphate Soils Field pH Test
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH206 0.1-0.2M	May 27, 2013		Soil	S13-My22571	X	
BH206 0.4-0.6	May 27, 2013		Soil	S13-My22572	X	
BH206 0.4-0.6A	May 27, 2013		Soil	S13-My22573	X	
BH206 0.4-0.6B	May 27, 2013		Soil	S13-My22574	X	
BH206 0.9-1	May 27, 2013		Soil	S13-My22575	X	
BH206 1.1-1.4	May 27, 2013		Soil	S13-My22576	X	
BH206 ASS 1.1-1.4	May 27, 2013		Soil	S13-My22577		X

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.

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

Attention: **Matthew Locke**

Report **380524-S**
Client Reference GEOTLCOV24303AH
Received Date May 27, 2013

Client Sample ID			**BH206 ASS 1.1-1.4**
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S13-My22577**
Date Sampled			**May 27, 2013**
Test/Reference	LOR	Unit	
Acid Sulphate Soils Field pH Test			
pH-F (Field pH test)	0.1	units	8.9
pH-FOX (Field pH Peroxide test)	0.1	units	6.9
Reaction Ratings		comment	Low

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Sulphate Soils Field pH Test	Sydney	May 29, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 27, 2013 2:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	380524	**Due:**	Jun 3, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					HOLD	Acid Sulphate Soils Field pH Test
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH206 0.1-0.2M	May 27, 2013		Soil	S13-My22571	X	
BH206 0.4-0.6	May 27, 2013		Soil	S13-My22572	X	
BH206 0.4-0.6A	May 27, 2013		Soil	S13-My22573	X	
BH206 0.4-0.6B	May 27, 2013		Soil	S13-My22574	X	
BH206 0.9-1	May 27, 2013		Soil	S13-My22575	X	
BH206 1.1-1.4	May 27, 2013		Soil	S13-My22576	X	
BH206 ASS 1.1-1.4	May 27, 2013		Soil	S13-My22577		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
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	No

Authorised By

Jean Heng Client Services

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ___ of ___ 107358

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: CHATSWOOD
Report Results to: M. LOCKE — Mobile: 0427202493 Email: matthew_locke @coffey.com
Invoices to: M. LOCKE — Phone: " Email: " @coffey.com

Project No: GEOTLOV24303AH Task No:
Project Name: ICC HOTEL Laboratory: MAT LANE COVE
Sampler's Name: M. LOCKE / C. LEE Project Manager: M. LOCKE
Special Instructions:

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH201_0.5-0.6	27/5		SOIL	JAR+BAG	STD.
	BH201_0.9-1.0	"		"	"	
	BH201_0.9-1.0A	"		"	JAR.	
	BH201_1.9-2.0	"		"	"	
	BH201-2.5-2.6	"		"	"	
	—	"		"		
	BH201A_0.5-0.6	28/5		"	JAR+BAG	
	BH201A_0.9-1.0	"		"	"	
	BH201A_1.5-1.6	"		"	JAR	
	BH201A_1.5-1.6A	"		"	"	
	BH201A-1.9	"		"	"	
	RB2	28/5		WATER	500ML UNPRES 125ML PRESERV HNO3 VOC PHIAL.	
	BH209_0.2-0.3	"		SOIL	JAR+BAG	

Analysis Request Section: SUITE B4 (TPH/BTEX/PAH) | SUITE M8 (METALS) | ASBESTOS (AS4964) | NOTES

RELINQUISHED BY		RECEIVED BY	
Name: M. LOCKE	Date: 28/5/13	Name: Elkin WG	Date: 280513
Coffey Environments	Time: 13.00	Company: Evergreens mgt	Time: ~~17~~ 15:00
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)
All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 380677

*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

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
COC number:	107358
Turn around time:	5 Day
Date/Time received:	May 28, 2013 3:00 PM
Eurofins | mgt reference:	**380677**

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 Eurofins | mgt Sample Receipt : 7.5 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.

☑ Sample containers for volatile analysis received with zero headspace.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Asbestos conducted by ASET

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

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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.

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

Attention: **Matthew Locke**

Report **380677-S**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 28, 2013

Client Sample ID			BH201_0.5-0.6	BH201_0.9-1.0	BH201_0.9-1.0A	BH201_1.9-2.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23531**	**S13-My23532**	**S13-My23533**	**S13-My23534**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	91	89	94
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
Polycyclic Aromatic Hydrocarbons						
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	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	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

Client Sample ID			BH201_0.5-0.6	BH201_0.9-1.0	BH201_0.9-1.0A	BH201_1.9-2.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23531**	**S13-My23532**	**S13-My23533**	**S13-My23534**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	< 0.5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	71	75	72
2-Fluorobiphenyl (surr.)	1	%	90	85	93	91
Heavy Metals						
Arsenic	2	mg/kg	3.6	< 2	< 2	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.9	6.7	6.4	< 5
Copper	5	mg/kg	23	18	18	6.1
Lead	5	mg/kg	9.5	17	14	8.6
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	9.0	< 5	< 5	< 5
Zinc	5	mg/kg	34	34	36	24
% Moisture	0.1	%	17	9.8	12	2.3
Asbestos			see attached	-	-	-

Client Sample ID			BH201A_0.5-0.6	BH201A_1.5-1.6	BH201A_1.5-1.6A	BH209_0.2-0.3
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23536**	**S13-My23538**	**S13-My23539**	**S13-My23542**
Date Sampled			**May 28, 2013**	**May 28, 2013**	**May 28, 2013**	**May 28, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	690	< 50	< 50	180
TRH C29-C36	50	mg/kg	2700	< 50	< 50	180
TRH C10-36 (Total)	50	mg/kg	3400	< 50	< 50	360
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	93	91	86
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			BH201A_0.5-0.6	BH201A_1.5-1.6	BH201A_1.5-1.6A	BH209_0.2-0.3
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23536**	**S13-My23538**	**S13-My23539**	**S13-My23542**
Date Sampled			**May 28, 2013**	**May 28, 2013**	**May 28, 2013**	**May 28, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	2500	< 100	< 100	330
TRH >C34-C40	100	mg/kg	2300	< 100	< 100	150
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	73	72	73
2-Fluorobiphenyl (surr.)	1	%	89	90	88	91
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.5	2.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.5	< 5	< 5	9.3
Copper	5	mg/kg	12	13	5.0	28
Lead	5	mg/kg	< 5	20	23	< 5
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	20	< 5	< 5	49
Zinc	5	mg/kg	22	220	200	31
% Moisture	0.1	%	2.5	5.6	6.5	9.2
Asbestos			see attached	-	-	see attached

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 31, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 30, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 29, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 29, 2013	28 Day
- Method: E005 Moisture Content			

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Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

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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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	86			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	116			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	123			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	108			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Chrysene	%	117			70-130	Pass	
Dibenz(a.h)anthracene	%	106			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	114			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	111			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	80			70-130	Pass	
Cadmium	%	89			70-130	Pass	
Chromium	%	88			70-130	Pass	
Copper	%	125			70-130	Pass	
Lead	%	86			70-130	Pass	
Mercury	%	110			70-130	Pass	
Nickel	%	93			70-130	Pass	
Zinc	%	86			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	S13-My23531	CP	%	78			70-130	Pass	
TRH C10-C14	S13-My23531	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My23531	CP	%	79			70-130	Pass	
Toluene	S13-My23531	CP	%	85			70-130	Pass	
Ethylbenzene	S13-My23531	CP	%	85			70-130	Pass	
m&p-Xylenes	S13-My23531	CP	%	86			70-130	Pass	
o-Xylene	S13-My23531	CP	%	85			70-130	Pass	
Xylenes - Total	S13-My23531	CP	%	85			70-130	Pass	

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	S13-My23531	CP	%	86			70-130	Pass	
TRH C6-C10	S13-My23531	CP	%	77			70-130	Pass	
TRH >C10-C16	S13-My23531	CP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My23531	CP	%	109			70-130	Pass	
Acenaphthylene	S13-My23531	CP	%	106			70-130	Pass	
Anthracene	S13-My23531	CP	%	114			70-130	Pass	
Benz(a)anthracene	S13-My23531	CP	%	99			70-130	Pass	
Benzo(a)pyrene	S13-My23531	CP	%	98			70-130	Pass	
Benzo(g.h.i)perylene	S13-My23531	CP	%	105			70-130	Pass	
Chrysene	S13-My23531	CP	%	108			70-130	Pass	
Dibenz(a.h)anthracene	S13-My23531	CP	%	101			70-130	Pass	
Fluoranthene	S13-My23531	CP	%	112			70-130	Pass	
Fluorene	S13-My23531	CP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My23531	CP	%	102			70-130	Pass	
Naphthalene	S13-My23531	CP	%	106			70-130	Pass	
Phenanthrene	S13-My23531	CP	%	105			70-130	Pass	
Pyrene	S13-My23531	CP	%	111			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My23531	CP	%	79			70-130	Pass	
Cadmium	S13-My23531	CP	%	98			70-130	Pass	
Chromium	S13-My23531	CP	%	88			70-130	Pass	
Copper	S13-My23531	CP	%	124			70-130	Pass	
Lead	S13-My23531	CP	%	99			70-130	Pass	
Mercury	S13-My23531	CP	%	112			70-130	Pass	
Nickel	S13-My23531	CP	%	93			70-130	Pass	
Zinc	S13-My23531	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	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My23531	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My23531	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My23531	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My23531	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My23531	CP	mg/kg	3.6	< 2	67	30%	Fail	
Cadmium	S13-My23531	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My23531	CP	mg/kg	8.9	9.2	4.0	30%	Pass	
Copper	S13-My23531	CP	mg/kg	23	37	46	30%	Fail	
Lead	S13-My23531	CP	mg/kg	9.5	9.6	1.0	30%	Pass	
Mercury	S13-My23531	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S13-My23531	CP	mg/kg	9.0	9.3	3.0	30%	Pass	
Zinc	S13-My23531	CP	mg/kg	34	37	10	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.

Authorised By

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

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **380677-W**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 28, 2013

Client Sample ID			**RB2**
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My23541**
Date Sampled			**May 28, 2013**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	95
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *			
Naphthalene[N02]	0.02	mg/L	< 0.02
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b)fluoranthene	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001

Client Sample ID			RB2
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My23541**
Date Sampled			**May 28, 2013**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH	0.002	mg/L	< 0.001
p-Terphenyl-d14 (surr.)	1	%	70
2-Fluorobiphenyl (surr.)	1	%	70
Heavy Metals			
Arsenic (filtered)	0.001	mg/L	< 0.001
Cadmium (filtered)	0.0001	mg/L	< 0.0001
Chromium (filtered)	0.001	mg/L	< 0.001
Copper (filtered)	0.001	mg/L	0.003
Lead (filtered)	0.001	mg/L	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001
Zinc (filtered)	0.005	mg/L	0.039

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 31, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 31, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 29, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8 filtered	Sydney	May 29, 2013	28 Day
- Method: E020/E030 Filtered Metals in Water & E026 Mercury			

eurofins | mgt

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Site # 1254 & 14271

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Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Metals M8 filtered E020/E030 Filtered Metals in Water & E026 Mercury							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	97			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	84			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Xylenes - Total	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	89			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	106			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	109			70-130	Pass	
Benz(a)anthracene	%	87			70-130	Pass	
Benzo(a)pyrene	%	91			70-130	Pass	
Benzo(g.h.i)perylene	%	88			70-130	Pass	
Chrysene	%	101			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	84			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	108			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Metals M8 filtered E020/E030 Filtered Metals in Water & E026 Mercury							
Arsenic (filtered)	%	105			70-130	Pass	
Cadmium (filtered)	%	109			70-130	Pass	
Chromium (filtered)	%	110			70-130	Pass	
Copper (filtered)	%	110			70-130	Pass	
Lead (filtered)	%	108			70-130	Pass	
Mercury (filtered)	%	112			70-130	Pass	
Nickel (filtered)	%	108			70-130	Pass	
Zinc (filtered)	%	109			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	S13-My23926	NCP	%	97			70-130	Pass	
TRH C10-C14	S13-My22820	NCP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My23926	NCP	%	105			70-130	Pass	
Toluene	S13-My23926	NCP	%	102			70-130	Pass	
Ethylbenzene	S13-My23926	NCP	%	104			70-130	Pass	
m&p-Xylenes	S13-My23926	NCP	%	102			70-130	Pass	
o-Xylene	S13-My23926	NCP	%	106			70-130	Pass	
Xylenes - Total	S13-My23926	NCP	%	104			70-130	Pass	

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	S13-My23926	NCP	%	104			70-130	Pass	
TRH C6-C10	S13-My23926	NCP	%	107			70-130	Pass	
TRH >C10-C16	S13-My22820	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My22823	NCP	%	100			70-130	Pass	
Acenaphthylene	S13-My22823	NCP	%	91			70-130	Pass	
Anthracene	S13-My22823	NCP	%	103			70-130	Pass	
Benz(a)anthracene	S13-My22823	NCP	%	87			70-130	Pass	
Benzo(a)pyrene	S13-My22823	NCP	%	97			70-130	Pass	
Benzo(g.h.i)perylene	S13-My22823	NCP	%	87			70-130	Pass	
Chrysene	S13-My22823	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S13-My22823	NCP	%	86			70-130	Pass	
Fluoranthene	S13-My22823	NCP	%	100			70-130	Pass	
Fluorene	S13-My22823	NCP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My22823	NCP	%	84			70-130	Pass	
Naphthalene	S13-My22823	NCP	%	101			70-130	Pass	
Phenanthrene	S13-My22823	NCP	%	101			70-130	Pass	
Pyrene	S13-My22823	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Metals M8 filtered				Result 1					
Arsenic (filtered)	S13-My23912	NCP	%	121			70-130	Pass	
Cadmium (filtered)	S13-My23912	NCP	%	109			70-130	Pass	
Chromium (filtered)	S13-My23912	NCP	%	119			70-130	Pass	
Copper (filtered)	S13-My23912	NCP	%	113			70-130	Pass	
Lead (filtered)	S13-My23912	NCP	%	113			70-130	Pass	
Mercury (filtered)	S13-My23541	CP	%	89			70-130	Pass	
Nickel (filtered)	S13-My23912	NCP	%	110			70-130	Pass	
Zinc (filtered)	S13-My23912	NCP	%	114			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	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S13-My22819	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S13-My23925	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S13-My23925	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S13-My22819	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Metals M8 filtered				Result 1	Result 2	RPD			
Arsenic (filtered)	S13-My23903	NCP	mg/L	0.0053	0.0052	2.0	30%	Pass	
Cadmium (filtered)	S13-My23903	NCP	mg/L	0.00010	0.00011	10	30%	Pass	
Chromium (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S13-My23541	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S13-My23903	NCP	mg/L	0.0040	0.0040	2.0	30%	Pass	
Zinc (filtered)	S13-My23903	NCP	mg/L	0.0070	0.0067	4.0	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.

Authorised By

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

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET33493/ 36673 / 1 - 3
Your ref : 380677
NATA Accreditation No: 14484

3 June 2013

Eurofins | mgt
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 three samples, forwarded by Eurofins | mgt on 30 May 2013, for analysis for asbestos.

1.Introduction: Three 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. ASET33493 / 36673 / 1. BH201 - 0.5 - 0.6 - My23531.
Approx dimensions 8.6 cm x 7.5 cm x 7.4 cm
The sample consisted of a mixture of soil, stones and plant matter.
No asbestos detected.

Sample No. 2. ASET33493 / 36673 / 2. BH201A - 0.5 - 0.6 - My23536.
Approx dimensions 7.5 cm x 6.6 cm x 6.4 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Sample No. 3. ASET33493 / 36673 / 3. BH209 - 0.2 - 0.3 - My23542.
Approx dimensions 7.4 cm x 6.8 cm x 6.6 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Analysed and reported by,

Laxman Dias. BSc
Analyst / Approved Identifier
Approved Signatory

NATA
WORLD RECOGNISED ACCREDITATION

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

#380839

From: Delfa Sarabia [mailto:Ma.Sarabia@coffey.com]
Sent: Thursday, 30 May 2013 10:25 AM
To: Enviro Syd; Enquiries Syd
Subject: RE: additional testing - ICC Hotel

Further to my email below, I just need normal turn around for the results which I understand 5 to 7 working days.

Regards

Delfa Sarabia
Senior Geotechnical Engineer

t: +61 2 9406 1064
f: +61 2 9406 1002
m: +61 412 135 979

From: Delfa Sarabia
Sent: Thursday, 30 May 2013 10:23 AM
To: 'enviro.syd@mgtlabmark.com.au'; 'Enquiries.Syd@mgtlabmark.com.au'
Subject: additional testing - ICC Hotel

Dear MGT,

Can you please include additional test to the samples that we sent for ICC hotel. I have attached the testing schedule which basically indicates 3 pH, sulfate and chloride testing.

Should you have any questions please contact us.

Regards

Delfa Sarabia
Senior Geotechnical Engineer

Level 19, Tower B Citadel Tower
799 Pacific Highway
Chatswood, NSW 2067 Australia

t: +61 2 9406 1064
f: +61 2 9406 1002
m: +61 412 135 979

coffey

380839 30 May 2013 1025.

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference: various

Sample Ref	Containter Type	Analysis Requested				
		pH, sulfate, chloride				
BH201A 0.9-1.0	Jar	x				
BH206 1.1-1.4	Jar	x				
BH203 0.5-0.6	Jar	x				

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Delfa Sarabia
Client job number:	ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	May 30, 2013 10:25 AM
Eurofins | mgt reference:	**380839**

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 Eurofins | mgt Sample Receipt : 4 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

Additional analysis request from reports 380677, 380524 and 380366

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 Delfa Sarabia - delfa_sarabia@coffey.com.

Eurofins | mgt Sample Receipt

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.

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

Attention: **Delfa Sarabia**

Report **380839-S**
Client Reference ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 30, 2013

Client Sample ID			**BH201A 0.9-1.0**	**BH206 1.1-1.4**	**BH203 0.5-0.6**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My24797**	**S13-My24798**	**S13-My24799**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit			
Chloride	10	mg/kg	< 10	< 10	< 10
pH (1:5 Aqueous extract)	0.1	units	9.5	8.9	8.5
Sulphate (as S)	10	mg/kg	22	< 10	< 10
% Moisture	0.1	%	9.5	7.1	5.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Chloride	Sydney	May 31, 2013	28 Day
- Method: E033 /E045 /E047 Chloride			
pH (1:5 Aqueous extract)	Sydney	Jun 04, 2013	7 Day
- Method: E018 pH			
Sulphate (as S)	Sydney	May 31, 2013	28 Day
- Method: E045 Sulphate			
% Moisture	Sydney	May 30, 2013	28 Day
- Method: E005 Moisture Content			

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ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 30, 2013 10:25 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	380839 +61 2 9406 1000 +61 2 9406 1002	**Due:** **Priority:** **Contact Name:**	Jun 6, 2013 5 Day Delfa Sarabia
Client Job No.:	ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Chloride	pH (1:5 Aqueous extract)	Sulphate (as S)
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								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
BH201A 0.9-1.0	May 27, 2013		Soil	S13-My24797	X	X	X	X
BH206 1.1-1.4	May 27, 2013		Soil	S13-My24798	X	X	X	X
BH203 0.5-0.6	May 27, 2013		Soil	S13-My24799	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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							
Chloride	mg/kg	< 10			10	Pass	
Sulphate (as S)	mg/kg	< 10			10	Pass	
LCS - % Recovery							
Chloride	%	111			70-130	Pass	
Sulphate (as S)	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Chloride	S13-My22826	NCP	%	111			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Chloride	S13-My22826	NCP	mg/kg	330	330	<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	No

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (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

#386699

From: Jean Heng
Sent: Monday, 22 July 2013 3:45 PM
To: EnviroSampleNSW

Please log in on 5days TAT.

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Monday, July 22, 2013 3:20 PM
To: Jean Heng
Subject: Chromium Reducible Sulfur

Jean,

Further to our discussion, we would like to commission further analysis of the following samples held under reference 382020-S:

- BH204A(3.9)
- BH204A(2.8-2.9)

Can you please let me know whether these samples are still within holding time to enable us to undertake Chromium Reducible Sulfur analysis?

Thanks and regards,

Matt

Matthew Locke BEng (Hons) MIEMA CEnv
Senior Associate Environmental Engineer

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

t: (+61) (2) 9406 1000
f: (+61) (2) 9406 1002
m: (+61) (0) 427 202 493

coffey

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 107468

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood
Report Results to: Matthew Locke — Mobile: — Email: Matthew.locke @coffey.com
Invoices to: Matthew Locke — Phone: — Email: Matthew.locke @coffey.com

Project No: GEOTLCOV24303AH — Task No:
Project Name: Hotel Development site, Darling Harbour — Laboratory: Eurofins MGT
Sampler's Name: PD — Project Manager: Matthew Locke
Special Instructions: (*) Only test PAH Ultratrace & sample to be filtered in lab using glass fibre filter. Check with Bob Symons if uncertain.

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	ASS Screening	BTEX/TPH/PAH	PAH Ultratrace	(*) PAH Ultratrace - Filter glass fibre	Metals (8)	BTEX & TPH C6-C9	NOTES
	BH204A_2.8-2.9_ASS1	7/6/13		Soil		Standard	✓						
	BH204A_3.8_ASS2	↓		↓		↓	✓						
	BH204A_3.9_ASS3						✓						
	BH204A_4.0-4.1_ASS4						✓						
	BH203			Water				✓	✓		✓		
	BH203_F									✓			
	BH204							✓	✓		✓		
	BH204_F									✓			
	BH205							✓	✓		✓		
	BH205_F									✓			
	DUP1							✓	✓		✓		
	RB							✓			✓		
	TB										✓		
	TS	↓		↓							✓		

RELINQUISHED BY

Name: Priya Dass — Date: 7/6/13
Coffey Environments — Time: 7.00 p.m.
Name: — Date:
Company: — Time:

RECEIVED BY

Name: Daniel Thompson — Date: 7/6/13
Company: Eurofins MGT — Time: 7pm
Name: — Date:
Company: — Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 382020

*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

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	Not provided
Turn around time:	7 Day
Date/Time received:	Jul 22, 2013 3:45 PM
Eurofins | mgt reference:	**386699**

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 Eurofins | mgt Sample Receipt : 4 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

Additinal from #382020

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **386699-S**
Client Reference ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
Received Date Jul 22, 2013

Client Sample ID			**BH204A_3.9-ASS3**	**BH204A_2.8-2.9_ASS1**
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-Jl15692**	**S13-Jl15693**
Date Sampled			**Jun 07, 2013**	**Jun 07, 2013**
Test/Reference	LOR	Unit		
Acid Base Accounting (Chromium Reducible Sulfur)				
ANC Fineness Factor	0.5	units	1.5	1.5
Liming rate - CRS[T01]	1	kg CaCO3/t	< 1	14
Net Acidity (acidity units) - CRS	10	mol H+/t	< 10	190
Net Acidity (sulfur units) - CRS	0.02	% S	< 0.02	0.3
Chromium Suite				
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	< 2
Chromium Reducible Sulfur	0.02	% S	0.26	0.30
pH-KCL	0.1	units	9.7	5.6
sulfidic - Titratable Actual Acidity	0.02	% pyrite S	< 0.02	< 0.02
% Moisture	0.1	%	19	20

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Base Accounting (Chromium Reducible Sulfur)	Melbourne	Jul 25, 2013	
Chromium Suite	Melbourne	Jul 25, 2013	6 Weeks
- Method: Acid Sulphate Soils Laboratory Methods Guidelines, Version 2.1			
% Moisture	Melbourne	Jul 24, 2013	14 Day
- Method: Method 102 - ANZECC - % Moisture			

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NATA # 1261 Site # 18217

Brisbane
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NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jul 22, 2013 3:45 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	386699	**Due:**	Jul 29, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke

Client Job No.: ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Chromium Suite
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH204A_3.9-ASS3	Jun 07, 2013		Soil	S13-Jl15692	X	X
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jl15693	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

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	No

Qualifier Codes/Comments

Code	Description
T01	Includes 1.5 Safety Factor

Authorised By

Jean Heng	Client Services
Glenn Jackson	Senior Analyst-SPOCAS (VIC)

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

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Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	107468
Turn around time:	5 Day
Date/Time received:	Jun 7, 2013 7:00 PM
Eurofins | mgt reference:	**382020**

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 Eurofins | mgt Sample Receipt : 4 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.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Extra sample received DUP1_F analysis as Ultra Trace PAH through glass fibre filter unless otherwise stated

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jn05878			X			
BH204A_3.8_ASS2	Jun 07, 2013		Soil	S13-Jn05879			X			
BH204A_3.9_ASS3	Jun 07, 2013		Soil	S13-Jn05880			X			
BH204A_4.0-4.1_ASS4	Jun 07, 2013		Soil	S13-Jn05881			X			
BH203	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05882		X		X	X	X
BH203_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05883		X				

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**	
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	382020 +61 2 9406 1000 +61 2 9406 1002
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH		

Received:	Jun 7, 2013 7:00 PM
Due:	Jun 18, 2013
Priority:	5 Day
Contact Name:	Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
BH204	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05884		X		X	X	X
BH204_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05885		X				
BH205	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05886		X		X	X	X
BH205_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05887		X				
DUP1	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05888		X		X	X	X
RB	Jun 07, 2013		Water	S13-Jn05889		X		X	X	X
TB	Jun 06, 2013		Water	S13-Jn05890	X				X	
TS	Jun 06, 2013		Water	S13-Jn05891	X				X	

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
DUP_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05892		X				

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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.

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

Attention: **Matthew Locke**

Report **382020-S**
Client Reference HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
Received Date Jun 07, 2013

Client Sample ID			**BH204A_2.8-2.9_ASS1**	**BH204A_3.8_ASS2**	**BH204A_3.9_ASS3**	**BH204A_4.0-4.1_ASS4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-Jn05878**	**S13-Jn05879**	**S13-Jn05880**	**S13-Jn05881**
Date Sampled			**Jun 07, 2013**	**Jun 07, 2013**	**Jun 07, 2013**	**Jun 07, 2013**
Test/Reference	LOR	Unit				
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	7.2	6.7	7.3	7.5
pH-FOX (Field pH Peroxide test)	0.1	units	2.2	2.0	2.6	5.5
Reaction Ratings		comment	Low	Low	Volcanic	High

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Sulphate Soils Field pH Test	Sydney	Jun 13, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jn05878			X			
BH204A_3.8_ASS2	Jun 07, 2013		Soil	S13-Jn05879			X			
BH204A_3.9_ASS3	Jun 07, 2013		Soil	S13-Jn05880			X			
BH204A_4.0-4.1_ASS4	Jun 07, 2013		Soil	S13-Jn05881			X			
BH203	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05882		X		X	X	X
BH203_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05883		X				

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**	
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020
		Phone:	+61 2 9406 1000
		Fax:	+61 2 9406 1002
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH		

Received:	Jun 7, 2013 7:00 PM
Due:	Jun 18, 2013
Priority:	5 Day
Contact Name:	Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
BH204	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05884		X		X	X	X
BH204_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05885		X				
BH205	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05886		X		X	X	X
BH205_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05887		X				
DUP1	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05888		X		X	X	X
RB	Jun 07, 2013		Water	S13-Jn05889		X		X	X	X
TB	Jun 06, 2013		Water	S13-Jn05890	X				X	
TS	Jun 06, 2013		Water	S13-Jn05891	X				X	

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NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	382020 +61 2 9406 1000 +61 2 9406 1002	**Due:** **Priority:** **Contact Name:**	Jun 18, 2013 5 Day Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
DUP_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05892		X				

Eurofins | mgt Internal Quality Control Review and Glossary

General

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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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

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	No

Authorised By

Jean Heng Client Services

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 107468

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood
Report Results to: Matthew Locke — Mobile: — Email: Matthew.locke @coffey.com
Invoices to: Matthew Locke — Phone: — Email: Matthew.locke @coffey.com

Project No: GEOTLCOV24303AH — Task No:
Project Name: Hotel Development site, Darling Harbour — Laboratory: Eurofins MGT
Sampler's Name: PD — Project Manager: Matthew Locke
Special Instructions: (*) Only test PAH Ultratrace & sample to be filtered in lab using glass fibre filter. Check with Bob Symons if uncertain.

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	ASS Screening	BTEX/TPH/PAH	PAH Ultratrace	(*) PAH Ultratrace - Filter glass fibre	Metals (8)	BTEX & TPH C6-C9	NOTES
	BH204A_2.8-2.9_ASS1	7/6/13		Soil		Standard	✓						
	BH204A_3.8_ASS2	↓		↓		↓	✓						
	BH204A_3.9_ASS3						✓						
	BH204A_4.0-4.1_ASS4						✓						
	BH203			Water				✓	✓		✓		
	BH203_F									✓			
	BH204							✓	✓		✓		
	BH204_F									✓			
	BH205							✓	✓		✓		
	BH205_F									✓			
	DUP1							✓	✓		✓		
	RB							✓			✓		
	TB										✓		
	TS	↓		↓							✓		

RELINQUISHED BY

Name: Priya Dass — Date: 7/6/13
Coffey Environments — Time: 7.00 p.m.
Name: — Date:
Company: — Time:

RECEIVED BY

Name: Daniel Thompson — Date: 7/6/13
Company: Eurofins MGT — Time: 7pm
Name: — Date:
Company: — Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 382020

*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

GOWANS PRINTING (02) 9755 3545

eurofins | mgt

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	107468
Turn around time:	5 Day
Date/Time received:	Jun 7, 2013 7:00 PM
Eurofins | mgt reference:	**382020**

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 Eurofins | mgt Sample Receipt : 4 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.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Extra sample received DUP1_F analysis as Ultra Trace PAH through glass fibre filter unless otherwise stated

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

				Field_ID	NBH1_0.5-0.6	NBH1_1.5-1.9	BH101A_(0.12-0.22m)	BH101A_(0.5-0.6m)	BH101A_(0.5-0.6m)_A	BH101A_(1.0-1.1m)	BH102_(0.5-0.6m)	BH102_(0.5-0.6m)_A	BH102_(0.8-0.9m)	BH103_(0.12-0.22m)	BH103_(0.12-0.22m)_A	BH103_(0.5-0.6m)
				LocCode	NBH1_0.5-0.6	NBH1_1.5-1.9										
				Sample_Depth_Range												
				Sampled_Date-Time	14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012	3/12/2012	29/11/2012	29/11/2012	29/11/2012
				Matrix_Description												
				Lab_Report_Number	SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703	361703	361195	361195	361195
Chem_Group	**ChemName**	**Units**	**LOR**	**Health Investigation & Screening Levels (NEPM, 1999) HIL F & HSL F**												
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5	11,000	-	-	-	-	-	-	-	-	-	-	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-	-
Field	pH (Field)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
	pH (aqueous extract)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	<3	<3	<2	2.5	4.8	2.5	2.2	<2	-	<2	<2	<2
	Cadmium	mg/kg	0.4	900	0.5	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	5	3600	11	3.6	<5	<5	<5	7.2	<5	<5	-	<5	<5	<5
	Copper	mg/kg	5	240,000	58	2.5	52	27	60	8.7	73	80	-	75	58	64
	Lead	mg/kg	5	1500	24	7	<5	13	52	20	10	10	-	<5	<5	<5
	Mercury	mg/kg	0.05	730	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
	Nickel	mg/kg	5	6000	92	1	110	48	89	5.5	110	130	-	110	100	120
	Zinc	mg/kg	5	400,000	79	19	51	42	260	31	70	71	-	50	45	46
PAH	Acenaphthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1	4000	<0.8	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	20	-	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20	20,000	<20	<20	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50	27,000	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50	38,000	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	50	-	<120	<120	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C16	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27,000	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38,000	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C10	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos		-	-	No Asbestos Detected	-	-	-	ND	-	-	-	ND	-	ND	-	ND

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

				Field_ID	BH103_(1.0-1.1m)	BH103_(1.5-1.6m)	BH103_(1.5-1.6m)_A	BH103_(2.5-2.6m)	BH103_(2.85-3.2m)	BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
				LocCode						BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
				Sample_Depth_Range														
				Sampled_Date-Time	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
				Matrix_Description														
				Lab_Report_Number	361195	361195	361195	361195	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167
Chem_Group	**ChemName**	**Units**	**LOR**	**Health Investigation & Screening Levels (NEPM, 1999) HIL F & HSL F**														
BTEX	Benzene	mg/kg	0.1	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	99,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2	-	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	230	<1.5	<1.5	<1.5	<1.5	<1.5	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5	11,000	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20	260	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20	<20
Field	pH (Field)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1	-	-	-	-	-	-	17	12	9.8	2.3	9.5	2.5	6.5	5.6	9.9
	pH (aqueous extract)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	9.5	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	2.8	-	-	-	-	3.6	<2	<2	4.2	-	<2	2.2	2.5	<2
	Cadmium	mg/kg	0.4	900	<0.4	-	-	-	-	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	5	3600	60	-	-	-	-	8.9	6.4	6.7	<5	-	6.5	<5	<5	25
	Copper	mg/kg	5	240,000	11	-	-	-	-	23	18	18	6.1	-	12	5	13	66
	Lead	mg/kg	5	1500	<5	-	-	-	-	9.5	14	17	8.6	-	<5	23	20	5.8
	Mercury	mg/kg	0.05	730	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Nickel	mg/kg	5	6000	36	-	-	-	-	9	<5	<5	<5	-	20	<5	<5	130
	Zinc	mg/kg	5	400,000	9.4	-	-	-	-	34	36	34	24	-	22	200	220	60
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1	4000	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C6 - C9	mg/kg	20	-	<10	<10	<10	<10	<10	<20	<20	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20	20,000	<50	<50	<50	<50	<50	<20	<20	<20	<20	-	<20	<20	<20	<20
	C15 - C28	mg/kg	50	27,000	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	690	<50	<50	83
	C29 - C36	mg/kg	50	38,000	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	2700	<50	<50	230
	C10 - C36 (Sum of total)	mg/kg	50	-	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	3400	<50	<50	310
	C10 - C16	mg/kg	50	-	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27,000	-	-	-	-	-	<100	<100	<100	<100	-	2500	<100	<100	260
	C34 - C40	mg/kg	100	38,000	-	-	-	-	-	<100	<100	<100	<100	-	2300	<100	<100	200
	C6 - C10	mg/kg	20	-	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20	<20
Asbestos		-	-	No Asbestos Detected	-	-	-	-	-	ND	-	-	-	-	ND	-	-	ND

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4
LocCode	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4
Sample_Depth_Range															
Sampled_Date-Time	23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013
Matrix_Description															
Lab_Report_Number	380167	380366	380839	380366	380366	379021	379021	379021	379021	379021	379021	379367	379367	379367	380839

Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, 1999) HIL F & HSL F														
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-
	Naphthalene	mg/kg	0.5	11,000	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Field	pH (Field)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10
	Moisture Content (dried @ 103°C)	%	0.1	-	8.3	11	5.3	11	7.3	5.2	6.7	8.2	9.3	19	20	8.5	13	11	7.1
	pH (aqueous extract)	pH_Units	0.1	-	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	8.9
	Sulphate as S	mg/kg	10	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Metals	Arsenic	mg/kg	2	3000	2.5	<2	-	<2	<2	<2	2.9	3	<2	5.9	2.3	<2	7.4	<2	-
	Cadmium	mg/kg	0.4	900	0.5	<0.4	-	0.5	<0.4	<0.4	<0.4	0.6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	5	3600	<5	9.3	-	14	<5	<5	<5	<5	<5	9.5	<5	<5	5.2	5.5	-
	Copper	mg/kg	5	240,000	33	56	-	63	17	68	27	33	<5	12	8.3	58	11	5.6	-
	Lead	mg/kg	5	1500	35	<5	-	<5	19	19	52	180	11	16	7.7	<5	12	12	-
	Mercury	mg/kg	0.05	730	29	<0.05	-	<0.05	0.29	<0.05	0.06	0.06	<0.05	<0.05	0.23	<0.05	<0.05	<0.05	-
	Nickel	mg/kg	5	6000	41	120	-	100	16	100	7.9	9.6	<5	<5	<5	110	<5	<5	-
	Zinc	mg/kg	5	400,000	140	41	-	44	59	150	170	220	<5	9.2	<5	55	8	24	-
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Total PAHs	mg/kg	1	4000	<0.5	<0.5	-	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C6 - C9	mg/kg	20	-	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	C10 - C14	mg/kg	20	20,000	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	C15 - C28	mg/kg	50	27,000	<50	<50	-	<50	<50	76	<50	<50	<50	<50	<50	<50	<50	<50	-
	C29 - C36	mg/kg	50	38,000	55	<50	-	<50	<50	160	<50	<50	<50	<50	<50	<50	<50	<50	-
	C10 - C36 (Sum of total)	mg/kg	50	-	55	<50	-	<50	<50	240	<50	<50	<50	<50	<50	<50	<50	<50	-
	C10 - C16	mg/kg	50	-	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	27,000	<100	<100	-	<100	<100	220	<100	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	38,000	<100	<100	-	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	-
	C6 - C10	mg/kg	20	-	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Asbestos		-	-	No Asbestos Detected	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample_Depth_Range											
Sampled_Date-Time	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix_Description											
Lab_Report_Number	379182	379182	380011	380011	380011	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, 1999) HIL F & HSL F											
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	111%
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	111%
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	113%
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	113%
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	114%
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	< 0.3	< 0.3	< 0.3	< 0.3	<0.3	<0.3	<0.3	<0.3	113%
	Naphthalene	mg/kg	0.5	11,000	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
Field	pH (Field)	pH_Units	0.1	-	-	-					-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1	-	5.5	5.8	6.4	4.8	20	19	9.2	-	9.9	-	-
	pH (aqueous extract)	pH_Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	3.2	<2	4.4	5.3	4.5	4.1	<2	<2	5.5	-	-
	Cadmium	mg/kg	0.4	900	<0.4	<0.4	< 0.4	< 0.4	< 0.4	< 0.4	<0.4	<0.4	0.5	-	-
	Chromium	mg/kg	5	3600	6.7	8.8	< 5	< 5	< 5	< 5	9.3	<5	<5	-	-
	Copper	mg/kg	5	240,000	31	5.7	24	< 5	< 5	5.9	28	7.8	37	-	-
	Lead	mg/kg	5	1500	17	<5	14	< 5	< 5	< 5	<5	9.8	41	-	-
	Mercury	mg/kg	0.05	730	0.07	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	35	-	-
	Nickel	mg/kg	5	6000	23	<5	9.6	< 5	< 5	< 5	49	<5	50	-	-
	Zinc	mg/kg	5	400,000	28	<5	40	7.5	270	250	31	9.9	160	-	-
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<1	<1	<1	<1	<1	<1	-	<1	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Total PAHs	mg/kg	1	4000	<1	<1	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<1	<0.5	-	-
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C6 - C9	mg/kg	20	-	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	<20	111%
	C10 - C14	mg/kg	20	20,000	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
	C15 - C28	mg/kg	50	27,000	<50	<50	< 50	< 50	< 50	< 50	180	<50	<50	-	-
	C29 - C36	mg/kg	50	38,000	<50	<50	< 50	< 50	< 50	< 50	180	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	50	-	<50	<50	< 50	< 50	< 50	< 50	360	<50	<50	-	-
	C10 - C16	mg/kg	50	-	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100	27,000	<100	<100	< 100	< 100	< 100	< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100	38,000	<100	<100	< 100	< 100	< 100	< 100	150	<100	<100	-	-
	C6 - C10	mg/kg	20	-	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
Asbestos		-	-	No Asbestos Detected	ND	-	ND	-	-	-	ND	-	-	-	-

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits

ICC Hotel Development, Darling Harbour, Sydney NSW

				Field_ID	NBH1_0.5-0.6	NBH1_1.5-1.9	BH101A_(0.12-0.22m)	BH101A_(0.5-0.6m)	BH101A_(0.5-0.6m)_A	BH101A_(1.0-1.1m)	BH102_(0.5-0.6m)	BH102_(0.5-0.6m)_A	BH102_(0.8-0.9m)	BH103_(0.12-0.22m)	BH103_(0.12-0.22m)_A	BH103_(0.5-0.6m)
				LocCode	NBH1_0.5-0.6	NBH1_1.5-1.9										
				Sample_Depth_Range												
				Sampled_Date-Time	14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012	3/12/2012	29/11/2012	29/11/2012	29/11/2012
				Matrix_Description												
				Lab_Report_Number	SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703	361703	361195	361195	361195
Chem_Group	**ChemName**	**Units**	**LOR**	**Management Limits (NEPM 1999)**												
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	-	-	-	-	-	-	-	-	-	-	-	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	3500	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	10,000	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits

ICC Hotel Development, Darling Harbour, Sydney NSW

				Field_ID	BH103_(1.0-1.1m)	BH103_(1.5-1.6m)	BH103_(1.5-1.6m)_A	BH103_(2.5-2.6m)	BH103_(2.85-3.2m)	BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
				LocCode						BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
				Sample_Depth_Range														
				Sampled_Date-Time	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
				Matrix_Description														
				Lab_Report_Number	361195	361195	361195	361195	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167
Chem_Group	**ChemName**	**Units**	**LOR**	**Management Limits (NEPM 1999)**														
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20	<20
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C16 - C34	mg/kg	100	3500	-	-	-	-	-	<100	<100	<100	<100	-	2500	<100	<100	260
	C34 - C40	mg/kg	100	10,000	-	-	-	-	-	<100	<100	<100	<100	-	2300	<100	<100	200

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID		BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4
LocCode		BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4
Sample_Depth_Range																
Sampled_Date-Time		23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013
Matrix_Description																
Lab_Report_Number		380167	380366	380839	380366	380366	379021	379021	379021	379021	379021	379021	379367	379367	379367	380839
Chem_Group	**ChemName**	**Units**	**LOR**	**Management Limits (NEPM 1999)**													
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	3500	<100	<100	-	<100	<100	220	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	10,000	<100	<100	-	<100	<100	110	<100	<100	<100	<100	<100	<100	-

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample_Depth_Range											
Sampled_Date-Time	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix_Description											
Lab_Report_Number	379182	379182	380011	380011	380011	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	Management Limits (NEPM 1999)											
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100	3500	<100	<100	< 100	< 100	< 100	< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100	10,000	<100	<100	< 100	< 100	< 100	< 100	150	<100	<100	-	-

Notes:

Table 3
Soil Analytical Results - Comparison of Primary Duplicate Samples

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH202 0.5-0.6	DUP4	RPD %	BH204 1.2-1.6m	DUP1	RPD %
LocCode	BH202 0.5-0.6	DUP4		BH204 1.2-1.6m	DUP1	
Sample_Depth_Range						
Sampled_Date-Time	23/05/2013	23/05/2013		14/05/2013	14/05/2013	
Matrix_Description						
Lab_Report_Number	380167	380167		379021	379021	

Chem_Group	**ChemName**	**Units**	**LOR**						
BTEX	Benzene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Toluene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Xylene (m & p)	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2	-
	Xylene (o)	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Xylene Total	mg/kg	0.3	<0.3	<0.3	-	<0.3	<0.3	-
	Naphthalene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	C6-C10 less BTEX (F1)	mg/kg	20	<20	<20	-	<20	<20	-
Metals	Arsenic	mg/kg	2	2.5	5.5	75.0	<2	<2	-
	Cadmium	mg/kg	0.4	0.5	0.5	0.0	<0.4	<0.4	-
	Chromium	mg/kg	5	<5	<5	-	<5	<5	-
	Copper	mg/kg	5	33	37	11.4	<5	7.8	-
	Lead	mg/kg	5	35	41	15.8	11	9.8	11.5
	Mercury	mg/kg	0.05	29	35	18.8	<0.05	<0.05	-
	Nickel	mg/kg	5	41	50	19.8	<5	<5	-
	Zinc	mg/kg	5	140	160	13.3	<5	9.9	-
PAH	Acenaphthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-	-	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Fluorene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Total PAHs	mg/kg	1	<0.5	<0.5	-	<1	<1	-
	Benzo(a)Pyrene TEQ	mg/kg	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	<50	<50	-	<50	<50	-
	C6 - C9	mg/kg	20	<20	<20	-	<20	<20	-
	C10 - C14	mg/kg	20	<20	<20	-	<20	<20	-
	C15 - C28	mg/kg	50	<50	<50	-	<50	<50	-
	C29 - C36	mg/kg	50	55	<50	-	<50	<50	-
	C10 - C36 (Sum of total)	mg/kg	50	55	<50	-	<50	<50	-
	C10 - C16	mg/kg	50	<50	<50	-	<50	<50	-
	C16 - C34	mg/kg	100	<100	<100	-	<100	<100	-
	C34 - C40	mg/kg	100	<100	<100	-	<100	<100	-
	C6 - C10	mg/kg	20	<20	<20	-	<20	<20	-

Table 4
Analytical Results of Trip Blank and Trip Spike Samples Collected During Soil Sampling

ICC Hotel Development, Darling Harbour, Sydney NSW

				TB130513-1	TS130513-1
			LocCode	TB130513-1	TS130513-1
			Sample_Depth_Range		
			Sampled_Date-Time	13/05/2013	13/05/2013
			Matrix_Description		
			Lab_Report_Number	379021	379021
Chem_Group	**ChemName**	**Units**	**LOR**		
BTEX	Benzene	mg/kg	0.1	<0.1	111%
	Toluene	mg/kg	0.1	<0.1	111%
	Ethylbenzene	mg/kg	0.1	<0.1	113%
	Xylene (m & p)	mg/kg	0.2	<0.2	113%
	Xylene (o)	mg/kg	0.1	<0.1	114%
	Xylene Total	mg/kg	0.3	<0.3	113%
	Naphthalene	mg/kg	0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	-	-
Field	pH (Field)	pH_Units	0.1	-	-
Inorganics	Chloride	mg/kg	10	-	-
	Moisture Content (dried @ 103℃)	%	0.1	-	-
	pH (aqueous extract)	pH_Units	0.1	-	-
	Sulphate as S	mg/kg	10	-	-
Metals	Arsenic	mg/kg	2	-	-
	Cadmium	mg/kg	0.4	-	-
	Chromium	mg/kg	5	-	-
	Copper	mg/kg	5	-	-
	Lead	mg/kg	5	-	-
	Mercury	mg/kg	0.05	-	-
	Nickel	mg/kg	5	-	-
	Zinc	mg/kg	5	-	-
PAH	Acenaphthene	mg/kg	0.5	-	-
	Acenaphthylene	mg/kg	0.5	-	-
	Anthracene	mg/kg	0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	-
	Chrysene	mg/kg	0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	-
	Fluoranthene	mg/kg	0.5	-	-
	Fluorene	mg/kg	0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	-
	Phenanthrene	mg/kg	0.5	-	-
	Pyrene	mg/kg	0.5	-	-
	Total PAHs	mg/kg	1	-	-
	Benzo(a)Pyrene TEQ	mg/kg	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	-	-
	C6 - C9	mg/kg	20	<20	111%
	C10 - C14	mg/kg	20	-	-
	C15 - C28	mg/kg	50	-	-
	C29 - C36	mg/kg	50	-	-
	C10 - C36 (Sum of total)	mg/kg	50	-	-
	C10 - C16	mg/kg	50	-	-
	C16 - C34	mg/kg	100	-	-
	C34 - C40	mg/kg	100	-	-
	C6 - C10	mg/kg	20	-	-
Asbestos		-	-	-	-

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	NBH1_0.5-0.6	NBH1_1.5-1.9	BH101A_(0.12-0.22m)	BH101A_(0.5-0.6m)	BH101A_(0.5-0.6m)_A	BH101A_(1.0-1.1m)	BH102_(0.5-0.6m)	BH102_(0.5-0.6m)_A
LocCode	NBH1_0.5-0.6	NBH1_1.5-1.9						
Sample_Depth_Range								
Sampled_Date-Time	14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012
Matrix_Description								
Lab_Report_Number	SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP							
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5						-	-					
	C6-C10 less BTEX (F1)	mg/kg	20						-	-					
Field	pH (Field)	pH_Units	0.1						-	-					
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1						-	-	-	-	-	-	-
	pH (aqueous extract)	pH_Units	0.1						-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	<3	<3	<2	2.5	4.8	2.5	2.2	<2
	Cadmium	mg/kg	0.4	20	100		80	400	0.5	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	5						11	3.6	<5	<5	<5	7.2	<5	<5
	Copper	mg/kg	5						58	2.5	52	27	60	8.7	73	80
	Lead	mg/kg	5	100	1500		400	6000	24	7	<5	13	52	20	10	10
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	92	1	110	48	89	5.5	110	130
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-
	Zinc	mg/kg	5						79	19	51	42	260	31	70	71
PAH	Acenaphthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<0.1	<0.1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<0.8	<0.8	<1	<1	<1	<1	<1	<1
TPH	F2-NAPHTHALENE	mg/kg	50						-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	20		650			2600	<20	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20						<20	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50						<50	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50						<50	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<120	<120	<100	<100	<100	<100	<100	<100
	C10 - C16	mg/kg	50						-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100						-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100						-	-	-	-	-	-	-	-
	C6 - C10	mg/kg	20						-	-	-	-	-	-	-	-
Asbestos		-	-						-	-	-	ND	-	-	-	ND

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH102_(0.8-0.9m)	BH103_(0.12-0.22m)	BH103_(0.12-0.22m)_A	BH103_(0.5-0.6m)	BH103_(1.0-1.1m)	BH103_(1.5-1.6m)	BH103_(1.5-1.6m)_A	BH103_(2.5-2.6m)
LocCode								
Sample_Depth_Range								
Sampled_Date-Time	3/12/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012
Matrix_Description								
Lab_Report_Number	361703	361195	361195	361195	361195	361195	361195	361195

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP							
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2						<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5													
	C6-C10 less BTEX (F1)	mg/kg	20													
Field	pH (Field)	pH_Units	0.1													
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1						-	-	-	-	-	-	-	-
	pH (aqueous extract)	pH_Units	0.1						-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	-	<2	<2	<2	2.8	-	-	-
	Cadmium	mg/kg	0.4	20	100		80	400	-	<0.4	<0.4	<0.4	<0.4	-	-	-
	Chromium	mg/kg	5						-	<5	<5	<5	60	-	-	-
	Copper	mg/kg	5						-	75	58	64	11	-	-	-
	Lead	mg/kg	5	100	1500		400	6000	-	<5	<5	<5	<5	-	-	-
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	-	<0.05	<0.05	<0.05	<0.05	-	-	-
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	-	110	100	120	36	-	-	-
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-
	Zinc	mg/kg	5						-	50	45	46	9.4	-	-	-
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<1	<1	<1	<1	<1	<1	<1	<1
TPH	F2-NAPHTHALENE	mg/kg	50						-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	20		650			2600	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20						<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50						<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50						<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C16	mg/kg	50						-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100						-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100						-	-	-	-	-	-	-	-
	C6 - C10	mg/kg	20						-	-	-	-	-	-	-	-
Asbestos		-	-						-	ND	-	ND	-	-	-	-

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH103_(2.85-3.2m)	BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
LocCode		BH201_0.5-0.6	BH201_0.9-1.0A	BH201_0.9-1.0	BH201_1.9-2.0	BH201A 0.9-1.0	BH201A_0.5-0.6	BH201A_1.5-1.6A	BH201A_1.5-1.6	BH202 0.1-0.2
Sample_Depth_Range										
Sampled_Date-Time	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
Matrix_Description										
Lab_Report_Number	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP									
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2						<1	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1						<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<1.5	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20							<20	<20	<20	<20	-	<20	<20	<20	<20
Field	pH (Field)	pH_Units	0.1							-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	<10	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1						-	17	12	9.8	2.3	9.5	2.5	6.5	5.6	9.9
	pH (aqueous extract)	pH_Units	0.1						-	-	-	-	-	9.5	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	22	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	-	3.6	<2	<2	4.2	-	<2	2.2	2.5	<2
	Cadmium	mg/kg	0.4	20	100		80	400	-	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	5						-	8.9	6.4	6.7	<5	-	6.5	<5	<5	25
	Copper	mg/kg	5						-	23	18	18	6.1	-	12	5	13	66
	Lead	mg/kg	5	100	1500		400	6000	-	9.5	14	17	8.6	-	<5	23	20	5.8
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	-	9	<5	<5	<5	-	20	<5	<5	130
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-	-	0.05
	Zinc	mg/kg	5						-	34	36	34	24	-	22	200	220	60
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<1	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
TPH	F2-NAPHTHALENE	mg/kg	50						-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C6 - C9	mg/kg	20		650			2600	<10	<20	<20	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20						<50	<20	<20	<20	<20	-	<20	<20	<20	<20
	C15 - C28	mg/kg	50						<100	<50	<50	<50	<50	-	690	<50	<50	83
	C29 - C36	mg/kg	50						<100	<50	<50	<50	<50	-	2700	<50	<50	230
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<100	<50	<50	<50	<50	-	3400	<50	<50	310
	C10 - C16	mg/kg	50						-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C16 - C34	mg/kg	100						-	<100	<100	<100	<100	-	2500	<100	<100	260
	C34 - C40	mg/kg	100						-	<100	<100	<100	<100	-	2300	<100	<100	200
	C6 - C10	mg/kg	20						-	<20	<20	<20	<20	-	<20	<20	<20	<20
Asbestos		-	-						-	ND	-	-	-	-	ND	-	-	ND

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA
LocCode	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA
Sample_Depth_Range										
Sampled_Date-Time	23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013
Matrix_Description										
Lab_Report_Number	380167	380366	380839	380366	380366	379021	379021	379021	379021	379021

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP									
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
Field	pH (Field)	pH_Units	0.1						-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	<10	-	-	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1						8.3	11	5.3	11	7.3	5.2	6.7	8.2	9.3	19
	pH (aqueous extract)	pH_Units	0.1						-	-	8.5	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	<10	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	2.5	<2	-	<2	<2	<2	2.9	3	<2	5.9
	Cadmium	mg/kg	0.4	20	100		80	400	0.5	<0.4	-	0.5	<0.4	<0.4	<0.4	0.6	<0.4	<0.4
	Chromium	mg/kg	5						<5	9.3	-	14	<5	<5	<5	<5	<5	9.5
	Copper	mg/kg	5						33	56	-	63	17	68	27	33	<5	12
	Lead	mg/kg	5	100	1500		400	6000	35	<5	-	<5	19	19	52	180	11	16
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	<0.01	-	-
	Mercury	mg/kg	0.05	4	50		16	200	29	<0.05	-	<0.05	0.29	<0.05	0.06	0.06	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			0.006	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	41	120	-	100	16	100	7.9	9.6	<5	<5
	Nickel TCLP Leachate	mg/L	0.05			2			<0.05	<0.05	-	-	-	0.13	-	-	-	-
	Zinc	mg/kg	5						140	41	-	44	59	150	170	220	<5	9.2
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						-	-	-	-	-	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<0.5	<0.5	-	<0.5	<0.5	<1	<1	<1	<1	<1
TPH	F2-NAPHTHALENE	mg/kg	50						<50	<50	-	<50	<50	<50	<50	<50	<50	<50
	C6 - C9	mg/kg	20		650			2600	<20	<20	-	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50						<50	<50	-	<50	<50	76	<50	<50	<50	<50
	C29 - C36	mg/kg	50						55	<50	-	<50	<50	160	<50	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	55	<50	-	<50	<50	240	<50	<50	<50	<50
	C10 - C16	mg/kg	50						<50	<50	-	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100						<100	<100	-	<100	<100	220	<100	<100	<100	<100
	C34 - C40	mg/kg	100						<100	<100	-	<100	<100	110	<100	<100	<100	<100
	C6 - C10	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
Asbestos		-	-						-	ND	-	-	-	-	-	-	-	-

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m
LocCode	BH204 2.8-3.0m	BH205_0.5-0.6	BH205_0.9-1.0	BH205_2.0-2.35	BH206 1.1-1.4	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m
Sample_Depth_Range										
Sampled_Date-Time	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013
Matrix_Description										
Lab_Report_Number	379021	379367	379367	379367	380839	379182	379182	380011	380011	380011

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP										
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	< 0.2	< 0.2	< 0.2
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	< 0.3	< 0.3	< 0.3
	Naphthalene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	C6-C10 less BTEX (F1)	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
Field	pH (Field)	pH_Units	0.1						-	-	-	-	-	-	-			
Inorganics	Chloride	mg/kg	10						-	-	-	-	<10	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1						20	8.5	13	11	7.1	5.5	5.8	6.4	4.8	20
	pH (aqueous extract)	pH_Units	0.1						-	-	-	-	8.9	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	<10	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	2.3	<2	7.4	<2	-	3.2	<2	4.4	5.3	4.5
	Cadmium	mg/kg	0.4	20	100		80	400	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	< 0.4	< 0.4	< 0.4
	Chromium	mg/kg	5						<5	<5	5.2	5.5	-	6.7	8.8	< 5	< 5	< 5
	Copper	mg/kg	5						8.3	58	11	5.6	-	31	5.7	24	< 5	< 5
	Lead	mg/kg	5	100	1500		400	6000	7.7	<5	12	12	-	17	<5	14	< 5	< 5
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	0.23	<0.05	<0.05	<0.05	-	0.07	<0.05	< 0.05	< 0.05	< 0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	<5	110	<5	<5	-	23	<5	9.6	< 5	< 5
	Nickel TCLP Leachate	mg/L	0.05			2			-	<0.05	-	-	-	-	-	-	-	-
	Zinc	mg/kg	5						<5	55	8	24	-	28	<5	40	7.5	270
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	<1	<1	<1	-	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	-	-	< 0.5	< 0.5	< 0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	-	-	< 0.5	< 0.5	< 0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Total PAHs	mg/kg	1		200			800	<1	<1	<1	<1	-	<1	<1	< 0.5	< 0.5	< 0.5
TPH	F2-NAPHTHALENE	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C6 - C9	mg/kg	20		650			2600	<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
	C10 - C14	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
	C15 - C28	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C29 - C36	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C10 - C16	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C16 - C34	mg/kg	100						<100	<100	<100	<100	-	<100	<100	< 100	< 100	< 100
	C34 - C40	mg/kg	100						<100	<100	<100	<100	-	<100	<100	< 100	< 100	< 100
	C6 - C10	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
Asbestos		-	-						-	ND	-	-	-	ND	-	ND	-	-

Table 5
Preliminary Waste Classification Assessment

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH208 DUP 3-3.1mA	BH209_0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample_Depth_Range						
Sampled_Date-Time	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix_Description						
Lab_Report_Number	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP					
BTEX	Benzene	mg/kg	0.1	10	18		40	72	< 0.1	<0.1	<0.1	<0.1	<0.1	1.11
	Toluene	mg/kg	0.1	288	518		1152	2073	< 0.1	<0.1	<0.1	<0.1	<0.1	1.11
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	< 0.1	<0.1	<0.1	<0.1	<0.1	1.13
	Xylene (m & p)	mg/kg	0.2						< 0.2	<0.2	<0.2	<0.2	<0.2	1.13
	Xylene (o)	mg/kg	0.1						< 0.1	<0.1	<0.1	<0.1	<0.1	1.14
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	< 0.3	<0.3	<0.3	<0.3	<0.3	1.13
	Naphthalene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20						< 20	<20	<20	<20	-	-
Field	pH (Field)	pH_Units	0.1							-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-
	Moisture Content (dried @ 103℃)	%	0.1						19	9.2	-	9.9	-	-
	pH (aqueous extract)	pH_Units	0.1						-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	4.1	<2	<2	5.5	-	-
	Cadmium	mg/kg	0.4	20	100		80	400	< 0.4	<0.4	<0.4	0.5	-	-
	Chromium	mg/kg	5						< 5	9.3	<5	<5	-	-
	Copper	mg/kg	5						5.9	28	7.8	37	-	-
	Lead	mg/kg	5	100	1500		400	6000	< 5	<5	9.8	41	-	-
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	< 0.05	<0.05	<0.05	35	-	-
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	0.009	-	-
	Nickel	mg/kg	5	40	1050		160	4200	< 5	49	<5	50	-	-
	Nickel TCLP Leachate	mg/L	0.05			2			-	0.07	-	0.05	-	-
	Zinc	mg/kg	5						250	31	9.9	160	-	-
PAH	Acenaphthene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Acenaphthylene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	-	<1	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5						< 0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5						< 0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Fluoranthene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Fluorene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Phenanthrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Pyrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Total PAHs	mg/kg	1		200			800	< 0.5	<0.5	<1	<0.5	-	-
TPH	F2-NAPHTHALENE	mg/kg	50						< 50	<50	<50	<50	-	-
	C6 - C9	mg/kg	20		650			2600	< 20	<20	<20	<20	<20	1.11
	C10 - C14	mg/kg	20						< 20	<20	<20	<20	-	-
	C15 - C28	mg/kg	50						< 50	180	<50	<50	-	-
	C29 - C36	mg/kg	50						< 50	180	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	< 50	360	<50	<50	-	-
	C10 - C16	mg/kg	50						< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100						< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100						< 100	150	<100	<100	-	-
	C6 - C10	mg/kg	20						< 20	<20	<20	<20	-	-
Asbestos		-	-						-	ND	-	-	-	-

Table 6

Groundwater Analytical Results - Comparison Against Marine Trigger Values for Protection of 95%/99% of Species (ANZECC/ARMCANZ, 2000)

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	Groundwater Investigation Levels (ANZECC 2000)	BH203_F BH203 7/06/2013	BH203 BH203 7/06/2013	BH204_F BH204 7/06/2013	BH204 BH204 7/06/2013	BH205_F BH205 7/06/2013	BH205 BH205 7/06/2013	RB RB 7/06/2013
Heavy Metal	Arsenic (Filtered)	mg/L	0.001	0.0023	-	<0.001	-	<0.001	-	0.002	<0.001
	Cadmium (Filtered)	mg/L	0.0001	0.0007	-	<0.0001	-	<0.0001	-	0.0004	<0.0001
	Chromium (Filtered)	mg/L	0.001	0.0044	-	<0.001	-	<0.001	-	<0.001	<0.001
	Copper (Filtered)	mg/L	0.001	0.0013	-	0.001	-	<0.001	-	0.052	<0.001
	Lead (Filtered)	mg/L	0.001	0.0044	-	<0.001	-	<0.001	-	<0.001	<0.001
	Mercury (Filtered)	mg/L	0.0001	0.0001	-	<0.0001	-	<0.0001	-	<0.0001	<0.0001
	Nickel (Filtered)	mg/L	0.001	0.007	-	0.005	-	<0.001	-	0.052	<0.001
	Zinc (Filtered)	mg/L	0.005	0.015	-	0.017	-	<0.005	-	0.044	<0.005
PAH	Acenaphthene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Acenaphthylene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Anthracene	µg/L	0.05	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(a)anthracene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(a)pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(g,h,i)perylene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(k)fluoranthene	µg/L	0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
	Chrysene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo[b+j]fluoranthene	mg/L	0.00001	-	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.001
	Dibenz(a,h)anthracene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Fluoranthene	µg/L	0.05	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Fluorene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Phenanthrene	µg/L	0.05	0.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Total PAHs	µg/L	0.05	-	0.06	0.05	0.06	0.05	<0.05	<0.05	<1
	Naphthalene	µg/L	0.05	50	0.06	0.05	0.06	0.05	<0.05	<0.05	<1
TPH	C10 - C14	µg/L	50	50	-	<50	-	170	-	<50	<50
	C15 - C28	µg/L	100	100	-	<100	-	100	-	<100	<100
	C29 - C36	µg/L	100	100	-	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	µg/L	100	-	-	<100	-	300	-	<100	<100
Volatile	Benzene	µg/L	1	500	-	<1	-	<1	-	<1	<1
	Toluene	µg/L	1	180	-	2	-	<1	-	<1	<1
	Ethylbenzene	µg/L	1	5	-	<1	-	<1	-	<1	<1
	Xylene (m & p)	µg/L	2	75	-	<2	-	<2	-	<2	<2
	Xylene (o)	µg/L	1	350	-	<1	-	<1	-	<1	<1
	Xylene Total	µg/L	3	-	-	<3	-	<3	-	<3	<3

Notes:

1. Samples with the suffix 'F' refer to samples that were filtered within the laboratory using a glass fibre 0.45micron filter

Table 7
Groundwater Analytical Results - Comparison Health Screening Levels (NEPC, 1999)

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	Groundwater HSL (NEPC, 1999)	BH203_F BH203 7/06/2013	BH203 BH203 7/06/2013	BH204_F BH204 7/06/2013	BH204 BH204 7/06/2013	BH205_F BH205 7/06/2013	BH205 BH205 7/06/2013	RB RB 7/06/2013
TPH	F2-NAPHTHALENE	mg/L	0.05	NL	-	<0.05	-	0.19	-	<0.05	<0.05
	C6 - C9	µg/L	20	NL	-	<20	-	<20	-	<20	<20
	Naphthalene	µg/L	20	NL	-	<20	-	<20	-	<20	<20
	C6-C10 less BTEX (F1)	mg/L	0.02	6	-	<0.02	-	<0.02	-	<0.02	<0.02
	C10 - C16	mg/L	0.05	NL	-	<0.05	-	0.19	-	<0.05	<0.05
	C16 - C34	mg/L	0.1	NL	-	<0.1	-	0.1	-	<0.1	<0.1
	C34 - C40	mg/L	0.1	NL	-	<0.1	-	<0.1	-	<0.1	<0.1
	C6 - C10	mg/L	0.02	NL	-	<0.02	-	<0.02	-	<0.02	<0.02
	C10 - C14	µg/L	50	NL	-	<50	-	170	-	<50	<50
	C15 - C28	µg/L	100	NL	-	<100	-	100	-	<100	<100
	C29 - C36	µg/L	100	NL	-	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	µg/L	100	NL	-	<100	-	300	-	<100	<100
Volatile	Benzene	µg/L	1	5000	-	<1	-	<1	-	<1	<1
	Toluene	µg/L	1	NL	-	2	-	<1	-	<1	<1
	Ethylbenzene	µg/L	1	NL	-	<1	-	<1	-	<1	<1
	Xylene (m & p)	µg/L	2	NL	-	<2	-	<2	-	<2	<2
	Xylene (o)	µg/L	1	NL	-	<1	-	<1	-	<1	<1
	Xylene Total	µg/L	3	NL	-	<3	-	<3	-	<3	<3

Notes:
1. Samples with the suffix 'F' refer to samples that were filtered within the laboratory using a glass fibre 0.45micron filter

Table 8
Groundwater Analytical Results - Comparison Primary Duplicate Samples

ICC Hotel Development, Darling Harbour, Sydney NSW

SDG	107468	107468	
Field ID	BH205	DUP1	**RPD**
Sample Da	7/06/2013	7/06/2013	

Method_Type	Analyte	Units	LOR			
Heavy Metal	Arsenic (Filtered)	mg/l	0.001	0.002	0.001	67
	Cadmium (Filtered)	mg/l	0.0001	0.0004	0.0004	0
	Chromium (Filtered)	mg/l	0.001	<0.001	<0.001	0
	Copper (Filtered)	mg/l	0.001	**0.052**	**0.1**	**63**
	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	0
	Mercury (Filtered)	mg/l	0.0001	<0.0001	<0.0001	0
	Nickel (Filtered)	mg/l	0.001	0.052	0.069	28
	Zinc (Filtered)	mg/l	0.005	0.044	0.037	17
Organic	F2-NAPHTHALENE	mg/l	0.05	<0.05	<0.05	0
	C6 - C9	µg/l	20	<20.0	<20.0	0
	Naphthalene	µg/l	20	<20.0	<20.0	0
	C6-C10 less BTEX (F1)	mg/l	0.02	<0.02	<0.02	0
	C10 - C16	mg/l	0.05	<0.05	<0.05	0
	C16 - C34	mg/l	0.1	<0.1	<0.1	0
	C34 - C40	mg/l	0.1	<0.1	<0.1	0
	C6 - C10	mg/l	0.02	<0.02	<0.02	0
PAH	Acenaphthene	µg/l	0.05	<0.05	<0.05	0
	Acenaphthylene	µg/l	0.05	<0.05	<0.05	0
	Anthracene	µg/l	0.05	<0.05	<0.05	0
	Benzo(a)anthracene	µg/l	0.05	<0.05	<0.05	0
	Benzo(a)pyrene	µg/l	0.05	<0.05	<0.05	0
	Benzo(g,h,i)perylene	µg/l	0.05	<0.05	<0.05	0
	Benzo(k)fluoranthene	µg/l	0.01	<0.01	<0.01	0
	Chrysene	µg/l	0.05	<0.05	<0.05	0
	Benzo[b+j]fluoranthene	mg/l	0.00001	<0.0	<0.0	0
	Dibenz(a,h)anthracene	µg/l	0.05	<0.05	<0.05	0
	Fluoranthene	µg/l	0.05	<0.05	<0.05	0
	Fluorene	µg/l	0.05	<0.05	<0.05	0
	Indeno(1,2,3-c,d)pyrene	µg/l	0.05	<0.05	<0.05	0
	Phenanthrene	µg/l	0.05	<0.05	<0.05	0
	Pyrene	µg/l	0.05	<0.05	<0.05	0
	Total PAHs	µg/l	0.05	<0.05	<0.05	0
	Naphthalene	µg/l	0.05	<0.05	<0.05	0
TPH	C10 - C14	µg/l	50	<50.0	<50.0	0
	C15 - C28	µg/l	100	<100.0	<100.0	0
	C29 - C36	µg/l	100	<100.0	<100.0	0
	C10 - C36 (Sum of total)	µg/l	100	<100.0	<100.0	0
Volatile	Benzene	µg/l	1	<1.0	<1.0	0
	Toluene	µg/l	1	<1.0	<1.0	0
	Ethylbenzene	µg/l	1	<1.0	<1.0	0
	Xylene (m & p)	µg/l	2	<2.0	<2.0	0
	Xylene (o)	µg/l	1	<1.0	<1.0	0
	Xylene Total	µg/l	3	<3.0	<3.0	0

*RPDs have only been considered where a concentration is greater than 0 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (0-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those u

Table 9
Trip Blank Trip Spike Samples Collected During Groundwater Monitoring Event

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	TB TB 6/06/2013	TS TS 6/06/2013
Heavy Metal	Arsenic (Filtered)	mg/L	0.001	-	-
	Cadmium (Filtered)	mg/L	0.0001	-	-
	Chromium (Filtered)	mg/L	0.001	-	-
	Copper (Filtered)	mg/L	0.001	-	-
	Lead (Filtered)	mg/L	0.001	-	-
	Mercury (Filtered)	mg/L	0.0001	-	-
	Nickel (Filtered)	mg/L	0.001	-	-
	Zinc (Filtered)	mg/L	0.005	-	-
Organic	F2-NAPHTHALENE	mg/L	0.05	-	-
	C6 - C9	µg/L	20	<20	78%
	Naphthalene	µg/L	20	-	-
	C6-C10 less BTEX (F1)	mg/L	0.02	-	-
	C10 - C16	mg/L	0.05	-	-
	C16 - C34	mg/L	0.1	-	-
	C34 - C40	mg/L	0.1	-	-
	C6 - C10	mg/L	0.02	-	-
PAH	Acenaphthene	µg/L	0.05	-	-
	Acenaphthylene	µg/L	0.05	-	-
	Anthracene	µg/L	0.05	-	-
	Benzo(a)anthracene	µg/L	0.05	-	-
	Benzo(a)pyrene	µg/L	0.05	-	-
	Benzo(g,h,i)perylene	µg/L	0.05	-	-
	Benzo(k)fluoranthene	µg/L	0.01	-	-
	Chrysene	µg/L	0.05	-	-
	Benzo[b+j]fluoranthene	mg/L	0.00001	-	-
	Dibenz(a,h)anthracene	µg/L	0.05	-	-
	Fluoranthene	µg/L	0.05	-	-
	Fluorene	µg/L	0.05	-	-
	Indeno(1,2,3-c,d)pyrene	µg/L	0.05	-	-
	Phenanthrene	µg/L	0.05	-	-
	Pyrene	µg/L	0.05	-	-
	Total PAHs	µg/L	0.05	-	-
	Naphthalene	µg/L	0.05	-	-
TPH	C10 - C14	µg/L	50	-	-
	C15 - C28	µg/L	100	-	-
	C29 - C36	µg/L	100	-	-
	C10 - C36 (Sum of total)	µg/L	100	-	-
Volatile	Benzene	µg/L	1	<1	120%
	Toluene	µg/L	1	<1	118%
	Ethylbenzene	µg/L	1	<1	100%
	Xylene (m & p)	µg/L	2	<2	99%
	Xylene (o)	µg/L	1	<1	104%
	Xylene Total	µg/L	3	<3	100%

Appendix D
Laboratory Certificates

Detailed Site Investigation
Proposed International Convention Centre Hotel Development
Darling Harbour, Sydney NSW

coffey

Chain of Custody

No: 20978

Laboratory Quotation / Order No:

Job No: GLCOV24303AH Sheet of

Dispatch to: (Address & Phone No.)	Sampled by: JOCELIN WIJAYA	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) MATTHEW LOCKE MATTHEW_LOCKE@COFFEY.COM	Courier Service: / Consignment Note No. #379021

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jocelin Wijaya (Coffey)	14/5/13		Elkin Wa Eurofins mgt	140513	16:35

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	MAHs = BTEX	Metals:	Sample Condition on Receipt
HOLD		Jar	BH204 0.15-0.2m	14/5/13					
TESTING INSTRUCTIONS		Jar	BH204 0.5-0.6m	"					
TO FOLLOW		Jar	BH204 0.8-0.9m	"					
		Jar	BH204 08-0.9mA	"					
		Zip bag	BH204 0.8-0.9m	"					
		Jar	BH204 1.2-1.6m	"					
		Zip bag	BH204 1.2-1.6m	"					
		Jar	BH204 1.8-2.1m	"					
		Jar	BH204 2.3-2.55m	"					
		Jar	BH204 2.8-3.0m	"					
		Jar	BH204 2.8-3.0mA	"					
		Zip bag	BH204_ASS1 3.1-3.2m	"					
		Bottle	RB1						
		Jar	TB130513-1						
		Jar	TS130513-1						
		~~Jar~~ Jar	DUP1						

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

8 14/5/13 4:35pm

642209-06

#379021

-----Original Message-----
From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Monday, 20 May 2013 2:26 PM
To: Enviro Syd
Cc: Enquiries Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site HOLD: GLCOV24303AH

Dear MGT / Sean,

Please find enclosed testing instructions for sample batch 379021 relating to Coffey Project Ref GEOTLCOV24303AH.

I trust the enclosed file will suffice as testing instructions. I am working remotely today without access to scanner/printer.

Please let me know if you have any queries regarding the enclosed.

Regards,

Matt

-----Original Message-----
From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]
Sent: Monday, 20 May 2013 1:29 PM
To: Matthew Locke
Subject: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site HOLD: GLCOV24303AH

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

Administration/ Sample Receipt

admin.syd@mgtLabMark.com.au

Unit F6, Unit F3,
Building F
16 Mars Road
Lane Cove West, NSW 2066
T:(+61) (2) 8215 6222
F:(+61) (2) 9420 2977

M: 04xxxxxxxx

P Please consider the environment before printing this email

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference 379021

Sample Ref	Containter Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH_F/pH_{FOX})	BTEX & TPH C6-C9
BH204 0.15-0.2m	Jar	X	X			
BH204 0.5-0.6m	Jar					
BH204 0.8-0.9m	Jar	X	X	X		
BH204 0.8-0.9m A	Jar	X	X			
BH204 1.2-1.6	Jar	X	X			
BH204 1.2-1.6	Zip Bag			X		
BH204 1.8-2.1	Jar					
BH204 2.3-2.55m	Jar					
BH204 2.8-3.0m	Jar	X	X			
BH204 2.8-3.0m A	Jar	X	X			
BH204_ASS1 3.1-3.2m	Zip Bag				X	
RB1	Bottle	X	X			
TB130513-1	Jar					X
TS130513-1	Jar					X
DUP1	Jar	X	X			

#379021

-----Original Message-----
From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Tuesday, 21 May 2013 10:46 AM
To: Enviro Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site ICC HOTEL DARLING HARBOUR GLCOV24303AH

Sean

Thank you for the SRA. Further to our discussion regarding your notes below:

Please do not analyse sample BH204 ASS1_3.1-3.2m for acid sulphate soils
Please only analyse RB1 for organics. Please do not analyse for metals.

I understand that MGT will issue another SRA in due course.

Regards,

Matt

-----Original Message-----
From: enviro.syd@mgtlabmark.com.au
[mailto:enviro.syd@mgtlabmark.com.au]
Sent: Monday, 20 May 2013 4:02 PM
To: Matthew Locke
Subject: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site ICC HOTEL DARLING HARBOUR GLCOV24303AH

Dear Valued Client,

Samples received 14/5/13; analysis received 20/5/13. | Sample BH204 ASS1_3.1-3.2m analysed outside of recommended holding time and received water logged; analysis likely to be compromised. | Sample bag (My12001) analysed for asbestos instead of sample jar (My11999) for sample BH204 0.9-0.9m unless otherwise requested. | Incorrect bottle and preservation type for metals analysis for RB1. Analysis to proceed - results may be affected

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
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Oakleigh Vic 3166
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NATA # 1261
Site # 1254 & 14271

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Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ICC HOTEL DARLING HARBOUR GLCOV24303AH
COC number:	20978
Turn around time:	5 Day
Date/Time received:	May 20, 2013 2:26 PM
Eurofins | mgt reference:	**379021**

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 Eurofins | mgt Sample Receipt : 8 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.

☑ Sample containers for volatile analysis received with zero headspace.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

SRA Re-issued: Acid Sulphate Soils anlysis cancelled for sample BH204 ASS1_3.1-3.2M| Metals analysis cancelled for RB1|Samples received 14/5/13; analysis received 20/5/13. | Sample bag (My12001) analysed for asbestos instead of sample jar (My11999) for sample BH204 0.9-0.9m unless otherwise 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.

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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.

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

Attention: **Matthew Locke**

Report **379021-W**
Client Reference ICC HOTEL DARLING HARBOUR GLCOV24303AH
Received Date May 20, 2013

Client Sample ID			**RB1**
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My12009**
Date Sampled			**May 14, 2013**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	94
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *			
Naphthalene[N02]	0.02	mg/L	< 0.02
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
Polyaromatic Hydrocarbons (PAH)			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b)fluoranthene & Benzo(k)fluoranthene	0.002	mg/L	< 0.002
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001

Client Sample ID			RB1
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My12009**
Date Sampled			**May 14, 2013**
Test/Reference	LOR	Unit	
Polyaromatic Hydrocarbons (PAH)			
Pyrene	0.001	mg/L	< 0.001
Total PAH	0.002	mg/L	< 0.002
2-Fluorobiphenyl (surr.)	1	%	113
p-Terphenyl-d14 (surr.)	1	%	78

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 20, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m_BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m_BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/L	< 0.002			0.002	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	104			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	103			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	97			70-130	Pass	
m&p-Xylenes	%	111			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total	%	106			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	101			70-130	Pass	
TRH >C10-C16	%	98			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	108			70-130	Pass	
Benz(a)anthracene	%	121			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	62			70-130	Fail	
Benzo(g.h.i)perylene	%	108			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	109			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	119			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	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	S13-My11144	NCP	%	93			70-130	Pass	
TRH C10-C14	S13-My14445	NCP	%	74			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My11144	NCP	%	100			70-130	Pass	
Toluene	S13-My11144	NCP	%	96			70-130	Pass	
Ethylbenzene	S13-My11144	NCP	%	98			70-130	Pass	
m&p-Xylenes	S13-My11144	NCP	%	113			70-130	Pass	
o-Xylene	S13-My11144	NCP	%	96			70-130	Pass	
Xylenes - Total	S13-My11144	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My11144	NCP	%	97			70-130	Pass	
TRH C6-C10	S13-My11144	NCP	%	102			70-130	Pass	
TRH >C10-C16	S13-My14445	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My14210	NCP	%	100			70-130	Pass	
Acenaphthylene	S13-My14210	NCP	%	102			70-130	Pass	
Anthracene	S13-My14210	NCP	%	99			70-130	Pass	
Benz(a)anthracene	S13-My14210	NCP	%	108			70-130	Pass	
Benzo(a)pyrene	S13-My14210	NCP	%	103			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My14210	NCP	%	62			70-130	Fail	Q13
Benzo(g.h.i)perylene	S13-My14210	NCP	%	92			70-130	Pass	
Chrysene	S13-My14210	NCP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S13-My14210	NCP	%	83			70-130	Pass	
Fluoranthene	S13-My14210	NCP	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S13-My14210	NCP	%	122			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My14210	NCP	%	82			70-130	Pass	
Phenanthrene	S13-My14210	NCP	%	103			70-130	Pass	
Pyrene	S13-My14210	NCP	%	96			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	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S13-My12009	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S13-My11142	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S13-My11142	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S13-My12009	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My12009	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<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.
Q13	Some elements for this test have failed in the QC sample. However when at least 80% have passed the QC can be released. All other QC has passed in this test batch

Authorised By

Jean Heng	Client Services
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (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

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **379021-S**
Client Reference ICC HOTEL DARLING HARBOUR GLCOV24303AH
Received Date May 20, 2013

Client Sample ID			BH204 0.15-0.2m	BH204 0.8-0.9m	BH204 0.8-0.9mA	BH204 0.8-0.9m_BAG
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My11997**	**S13-My11999**	**S13-My12000**	**S13-My12001**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	76	< 50	< 50	-
TRH C29-C36	50	mg/kg	160	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	240	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	98	93	94	-
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	220	< 100	< 100	-
TRH >C34-C40	100	mg/kg	110	< 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			BH204 0.15-0.2m	BH204 0.8-0.9m	BH204 0.8-0.9mA	BH204 0.8-0.9m_BAG
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My11997**	**S13-My11999**	**S13-My12000**	**S13-My12001**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
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	%	127	100	100	-
p-Terphenyl-d14 (surr.)	1	%	117	88	90	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.0	2.9	-
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	-
Chromium	5	mg/kg	< 5	< 5	< 5	-
Copper	5	mg/kg	68	33	27	-
Lead	5	mg/kg	19	180	52	-
Mercury	0.05	mg/kg	< 0.05	0.06	0.06	-
Nickel	5	mg/kg	100	9.6	7.9	-
Zinc	5	mg/kg	150	220	170	-
% Moisture	0.1	%	5.2	8.2	6.7	-
Asbestos			-	-	-	

Client Sample ID			BH204 1.2-1.6m	BH204 1.2-1.6m_BAG	BH204 2.8-3.0m	BH204 2.8-3.0mA
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My12002**	**S13-My12003**	**S13-My12006**	**S13-My12007**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	-	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

Client Sample ID			BH204 1.2-1.6m	BH204 1.2-1.6m_BAG	BH204 2.8-3.0m	BH204 2.8-3.0mA
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My12002**	**S13-My12003**	**S13-My12006**	**S13-My12007**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
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
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	%	98	-	112	109
p-Terphenyl-d14 (surr.)	1	%	90	-	91	97
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	2.3	5.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	< 5	9.5
Copper	5	mg/kg	< 5	-	8.3	12
Lead	5	mg/kg	11	-	7.7	16
Mercury	0.05	mg/kg	< 0.05	-	0.23	< 0.05
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	< 5	-	< 5	9.2
% Moisture	0.1	%	9.3	-	20	19
Asbestos			-		-	-

Client Sample ID			TB130513-1	TS130513-1	DUP1
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My12010**	**S13-My12011**	**S13-My12012**
Date Sampled			**May 13, 2013**	**May 13, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	111%	< 20
TRH C10-C14	20	mg/kg	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TB130513-1 Soil S13-My12010 May 13, 2013	TS130513-1 Soil S13-My12011 May 13, 2013	DUP1 Soil S13-My12012 May 14, 2013
BTEX					
Benzene	0.1	mg/kg	< 0.1	111%	< 0.1
Toluene	0.1	mg/kg	< 0.1	111%	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	113%	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	113%	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	114%	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	113%	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	109	93
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100
Polyaromatic Hydrocarbons (PAH)					
Acenaphthene	0.5	mg/kg	-	-	< 0.5
Acenaphthylene	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(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	-	-	< 1
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5
Total PAH	1	mg/kg	-	-	< 1
2-Fluorobiphenyl (surr.)	1	%	-	-	108
p-Terphenyl-d14 (surr.)	1	%	-	-	101
Heavy Metals					
Arsenic	2	mg/kg	-	-	< 2
Cadmium	0.4	mg/kg	-	-	< 0.4
Chromium	5	mg/kg	-	-	< 5
Copper	5	mg/kg	-	-	7.8
Lead	5	mg/kg	-	-	9.8
Mercury	0.05	mg/kg	-	-	< 0.05
Nickel	5	mg/kg	-	-	< 5
Zinc	5	mg/kg	-	-	9.9

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 21, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 21, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 21, 2013	28 Day
- Method: E005 Moisture Content			

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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m_BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**	
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	379021 +61 2 9406 1000 +61 2 9406 1002
Client Job No.:	ICC HOTEL DARLING HARBOUR GLCOV24303AH		

Received:	May 20, 2013 2:26 PM
Due:	May 27, 2013
Priority:	5 Day
Contact Name:	Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m_BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

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NATA # 1261 Site # 20794

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.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
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Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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 C10-C14	%	92			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	110			70-130	Pass	
Toluene	%	116			70-130	Pass	
Ethylbenzene	%	122			70-130	Pass	
m&p-Xylenes	%	123			70-130	Pass	
o-Xylene	%	124			70-130	Pass	
Xylenes - Total	%	123			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	100			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
TRH >C10-C16	%	101			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	94			70-130	Pass	
Benzo(g.h.i)perylene	%	114			70-130	Pass	
Chrysene	%	101			70-130	Pass	
Dibenz(a.h)anthracene	%	105			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	104			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	98			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	89			70-130	Pass	
Cadmium	%	103			70-130	Pass	
Chromium	%	95			70-130	Pass	
Copper	%	101			70-130	Pass	
Lead	%	98			70-130	Pass	
Mercury	%	98			70-130	Pass	
Nickel	%	98			70-130	Pass	
Zinc	%	108			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	S13-My15042	NCP	%	89			70-130	Pass	
TRH C10-C14	S13-My11997	CP	%	103			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My15042	NCP	%	105			70-130	Pass	
Toluene	S13-My15042	NCP	%	109			70-130	Pass	
Ethylbenzene	S13-My15042	NCP	%	115			70-130	Pass	
m&p-Xylenes	S13-My15042	NCP	%	115			70-130	Pass	
o-Xylene	S13-My15042	NCP	%	123			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total	S13-My15042	NCP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My15042	NCP	%	95			70-130	Pass	
TRH C6-C10	S13-My15042	NCP	%	100			70-130	Pass	
TRH >C10-C16	S13-My11997	CP	%	119			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My11997	CP	%	129			70-130	Pass	
Acenaphthylene	S13-My11997	CP	%	125			70-130	Pass	
Anthracene	S13-My11997	CP	%	124			70-130	Pass	
Benz(a)anthracene	S13-My11997	CP	%	126			70-130	Pass	
Benzo(a)pyrene	S13-My11997	CP	%	129			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	CP	%	124			70-130	Pass	
Benzo(g.h.i)perylene	S13-My11997	CP	%	110			70-130	Pass	
Chrysene	S13-My11997	CP	%	103			70-130	Pass	
Dibenz(a.h)anthracene	S13-My11997	CP	%	129			70-130	Pass	
Fluoranthene	S13-My11997	CP	%	114			70-130	Pass	
Fluorene	S13-My11997	CP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My11997	CP	%	125			70-130	Pass	
Naphthalene	S13-My11997	CP	%	125			70-130	Pass	
Phenanthrene	S13-My11997	CP	%	123			70-130	Pass	
Pyrene	S13-My11997	CP	%	126			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My11997	CP	%	95			70-130	Pass	
Cadmium	S13-My11997	CP	%	100			70-130	Pass	
Chromium	S13-My11997	CP	%	96			70-130	Pass	
Copper	S13-My17742	NCP	%	103			70-130	Pass	
Lead	S13-My11997	CP	%	117			70-130	Pass	
Mercury	S13-My11997	CP	%	106			70-130	Pass	
Nickel	S13-My17742	NCP	%	74			70-130	Pass	
Zinc	S13-My17014	NCP	%	80			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	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My11997	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My11997	CP	mg/kg	76	68	11	30%	Pass	
TRH C29-C36	S13-My11997	CP	mg/kg	160	150	9.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My15042	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My15042	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My15042	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S13-My11997	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My11997	CP	mg/kg	220	190	15	30%	Pass	
TRH >C34-C40	S13-My11997	CP	mg/kg	110	100	7.0	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My11997	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S13-My11997	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My11997	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S13-My11997	CP	mg/kg	68	69	2.0	30%	Pass	
Lead	S13-My11997	CP	mg/kg	19	21	8.0	30%	Pass	
Mercury	S13-My11997	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S13-My11997	CP	mg/kg	100	97	3.0	30%	Pass	
Zinc	S13-My11997	CP	mg/kg	150	150	2.0	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.

Authorised By

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

eurofins | mgt

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NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m_BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m_BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

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Melbourne
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NATA # 1261
Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins | mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

coffey

Chain of Custody

No: 20979

Laboratory Quotation / Order No:

Job No: GLCOV24303AH Sheet of

Dispatch to: (Address & Phone No.) MGT LAB MARK LANE COVE	Sampled by: JOCELIN WIJAYA	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) MATTHEW LOCKE MATTHEW_LOCKE@COFFEY.COM	Courier Service: / Consignment Note No: #379182

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Matthew Locke (Coffey)			Mitchell Murphy Environs mgt	15-5-13	1.40pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	MAHs = BTEX	Metals:	Sample Condition on Receipt
* HOLD		Jar	BH207 0.1-0.2m	14/5/13					
TESTING SCHEDULE		Jar	BH207 0.4-0.5m	"					
TO BE ISSUED		Zip bag	BH207 0.4-0.5m	"					
SEPARATELY		Jar	BH207 1.0-1.1m	"					
		Zip bag	BH207 1.0-1.1m	"					
		Jar	BH207 1.5-1.92m	"					
		[redacted] Jar	Dup 2	"					

Special Laboratory Instructions:

Detection Limits:

Turnaround Required: STANDARD.

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

642209-06

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

#379182
#379367
CA 20/5/13

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Monday, 20 May 2013 7:15 AM
To: Enviro Syd; Enquiries Syd
Subject: GEOTLCOV24303AH - Testing Instructions

Dear MGT,

Please find enclosed testing instructions for soil samples submitted to you last week from our project referred to as ICC Hotel with reference GEOTLCOV24303AH.

There is another batch of samples from this project which have been submitted to your laboratory on 14/05 but we have not receive a receipt notification. These samples would have been submitted under the same project number and would refer to sample position BH204. Could you please check and confirm that you have received these samples. If so, could you please send me a copy of the COC and I will provide testing instructions. Thanks for your assistance with this.

Regards,

Matt

Matthew Locke BEng (Hons), MIEMA, CEnv
Senior Associate Environmental Engineer

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

t: (+61) (2) 9406 1000
f: (+61) (2) 9406 1002
m: (+61) (0) 427 202 493

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coffey

Chain of Custody

No: 20979

Laboratory Quotation / Order No:

Job No: GLCOV24303AH Sheet of

Dispatch to: (Address & Phone No.) WT LABMARK LANE COVE	Sampled by: JOCELIN WIJAYA	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) MATTHEW LOCKE MATTHEW_LOCKE@COFFEY.COM	Courier Service: / Consignment Note No: #379182

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Matthew Locke (Coffey)			Mitchell Mapke Environs mgt CALIBRATE QA	15-5-13 / 15/5/13	1.40pm / 0715

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs=BTEX	Metals	Suite B4 (TPH/BTEX)	Suite M6 Metals	Asbestos	Sample Condition on Receipt
HOLD		Jar	BH207 0.1-0.2m	14/5/13								
TESTING SCHEDULE TO BE ISSUED SEPARATELY		Jar	BH207 0.4-0.5m	"					X	X		
		Zip bag	BH207 0.4-0.5m	"							X	
		Jar	BH207 1.0-1.1m	"								
		Zip bag	BH207 1.0-1.1m	"								
		Jar	BH207 1.5-1.92m	"					X	X		
		Jar	Dup 2	"								

Special Laboratory Instructions:

Detection Limits:

Turnaround Required: STANDARD.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

642709-06

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

Sample Receipt Advice

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

Contact name: Matthew Locke
Client job number: GLCOV24303AH
COC number: 20979
Turn around time: 5 Day
Date/Time received: May 20, 2013 7:15 AM
Eurofins | mgt reference: **379182**

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 Eurofins | mgt Sample Receipt : 7.5 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 jar for sample BH207 1.5-1.92m received cracked but intact | Samples received 15/5/13 - analysis received 20/5/13 - TAT adjusted accordingly

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.

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

Client Job No.: GLCOV24303AH

Order No.:
Report #: 379182
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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**					
BH207 0.1-0.2m	May 14, 2013		Soil	S13-My12862			X		
BH207 0.4-0.5m	May 14, 2013		Soil	S13-My12863	X			X	X
BH207 0.4-0.5m_BAG	May 14, 2013		Soil	S13-My12864		X			
BH207 1.0-1.1m	May 14, 2013		Soil	S13-My12865			X		
BH207 1.0-1.1m_BAG	May 14, 2013		Soil	S13-My12866			X		
BH207 1.5-1.92m	May 14, 2013		Soil	S13-My12867	X			X	X

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 20, 2013 7:15 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	379182	**Due:**	May 27, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	GLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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			
DUP2	May 14, 2013		Soil	S13-My12868			X		

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref : ASET33371/ 36551 / 1 - 1
Your ref : 379367
NATA Accreditation No: 14484

24 May 2013

Eurofins | mgt
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 one sample, forwarded by Eurofins | mgt on 21 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was 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. ASET33371 / 36551 / 1. BH205 - 0.5 - 0.6 - Bag - My14260.**
Approx dimensions 7.6 cm x 7.4 cm x 5.6 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Analysed and reported by,

Laxman Dias. BSc
Analyst / Approved Identifier
Approved Signatory

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

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **379182-S**
Client Reference GLCOV24303AH
Received Date May 20, 2013

Client Sample ID			BH207 0.4-0.5m	BH207 0.4-0.5m_BAG	BH207 1.5-1.92m
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My12863**	**S13-My12864**	**S13-My12867**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	-	90
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
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
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	< 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

Client Sample ID			BH207 0.4-0.5m	BH207 0.4-0.5m_BAG	BH207 1.5-1.92m
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My12863**	**S13-My12864**	**S13-My12867**
Date Sampled			**May 14, 2013**	**May 14, 2013**	**May 14, 2013**
Test/Reference	LOR	Unit			
Polyaromatic Hydrocarbons (PAH)					
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	%	111	-	114
p-Terphenyl-d14 (surr.)	1	%	105	-	109
Heavy Metals					
Arsenic	2	mg/kg	3.2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4
Chromium	5	mg/kg	6.7	-	8.8
Copper	5	mg/kg	31	-	5.7
Lead	5	mg/kg	17	-	< 5
Mercury	0.05	mg/kg	0.07	-	< 0.05
Nickel	5	mg/kg	23	-	< 5
Zinc	5	mg/kg	28	-	< 5
% Moisture	0.1	%	5.5	-	5.8
Asbestos			-	see attached	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 20, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 20, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 20, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 20, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 20, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 20, 2013	28 Day
- Method: E005 Moisture Content			

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Client Job No.: GLCOV24303AH

Order No.:
Report #: 379182
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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**					
BH207 0.1-0.2m	May 14, 2013		Soil	S13-My12862			X		
BH207 0.4-0.5m	May 14, 2013		Soil	S13-My12863	X			X	X
BH207 0.4-0.5m_BAG	May 14, 2013		Soil	S13-My12864		X			
BH207 1.0-1.1m	May 14, 2013		Soil	S13-My12865			X		
BH207 1.0-1.1m_BAG	May 14, 2013		Soil	S13-My12866			X		
BH207 1.5-1.92m	May 14, 2013		Soil	S13-My12867	X			X	X

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 20, 2013 7:15 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	379182	**Due:**	May 27, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	GLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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			
DUP2	May 14, 2013		Soil	S13-My12868			X		

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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	%	103			70-130	Pass	
TRH C10-C14	%	98			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	113			70-130	Pass	
Toluene	%	112			70-130	Pass	
Ethylbenzene	%	117			70-130	Pass	
m&p-Xylenes	%	116			70-130	Pass	
o-Xylene	%	119			70-130	Pass	
Xylenes - Total	%	117			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	97			70-130	Pass	
TRH C6-C10	%	104			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	116			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	126			70-130	Pass	
Benz(a)anthracene	%	111			70-130	Pass	
Benzo(a)pyrene	%	120			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	119			70-130	Pass	
Benzo(g.h.i)perylene	%	127			70-130	Pass	
Chrysene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	112			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	125			70-130	Pass	
Pyrene	%	111			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	84			70-130	Pass	
Cadmium	%	83			70-130	Pass	
Chromium	%	89			70-130	Pass	
Copper	%	116			70-130	Pass	
Lead	%	83			70-130	Pass	
Mercury	%	98			70-130	Pass	
Nickel	%	92			70-130	Pass	
Zinc	%	83			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	S13-My14184	NCP	%	86			70-130	Pass	
TRH C10-C14	S13-My17569	NCP	%	80			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My14184	NCP	%	101			70-130	Pass	
Toluene	S13-My14184	NCP	%	102			70-130	Pass	
Ethylbenzene	S13-My14184	NCP	%	105			70-130	Pass	
m&p-Xylenes	S13-My14184	NCP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S13-My14184	NCP	%	106			70-130	Pass	
Xylenes - Total	S13-My14184	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My14184	NCP	%	99			70-130	Pass	
TRH C6-C10	S13-My14184	NCP	%	92			70-130	Pass	
TRH >C10-C16	S13-My17569	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My15386	NCP	%	128			70-130	Pass	
Acenaphthylene	S13-My15386	NCP	%	115			70-130	Pass	
Anthracene	S13-My15386	NCP	%	118			70-130	Pass	
Benz(a)anthracene	S13-My15386	NCP	%	119			70-130	Pass	
Benzo(a)pyrene	S13-My15386	NCP	%	123			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My15386	NCP	%	124			70-130	Pass	
Benzo(g.h.i)perylene	S13-My15386	NCP	%	123			70-130	Pass	
Chrysene	S13-My15386	NCP	%	129			70-130	Pass	
Dibenz(a.h)anthracene	S13-My15386	NCP	%	129			70-130	Pass	
Fluoranthene	S13-My15386	NCP	%	126			70-130	Pass	
Fluorene	S13-My15386	NCP	%	118			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My15386	NCP	%	129			70-130	Pass	
Naphthalene	S13-My15386	NCP	%	129			70-130	Pass	
Phenanthrene	S13-My15386	NCP	%	125			70-130	Pass	
Pyrene	S13-My15386	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My12863	CP	%	86			70-130	Pass	
Cadmium	S13-My12863	CP	%	100			70-130	Pass	
Chromium	S13-My12863	CP	%	92			70-130	Pass	
Copper	S13-My15379	NCP	%	120			70-130	Pass	
Lead	S13-My12863	CP	%	97			70-130	Pass	
Mercury	S13-My12863	CP	%	90			70-130	Pass	
Nickel	S13-My12863	CP	%	114			70-130	Pass	
Zinc	S13-My12863	CP	%	103			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	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My14189	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My14189	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My14189	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C10 less BTEX (F1)	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My14189	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My14189	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My15386	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My12863	CP	mg/kg	3.2	2.9	10	30%	Pass	
Cadmium	S13-My12863	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My12863	CP	mg/kg	6.7	7.2	7.0	30%	Pass	
Copper	S13-My12863	CP	mg/kg	31	32	5.0	30%	Pass	
Lead	S13-My12863	CP	mg/kg	17	21	19	30%	Pass	
Mercury	S13-My12863	CP	mg/kg	0.07	0.09	25	30%	Pass	
Nickel	S13-My12863	CP	mg/kg	23	23	<1	30%	Pass	
Zinc	S13-My12863	CP	mg/kg	28	29	4.0	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.

Authorised By

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of ___ 107357

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: CHATSWOOD
Report Results to: Matthew Locke Mobile: 0427202493 Email: matthew_locke @coffey.com
Invoices to: Phone: Email: @coffey.com

Project No: GEOTLCOV24303AH Task No:
Project Name: ICC HOTEL Laboratory: MGT LABMARK.
Sampler's Name: Charlie Lee. Project Manager: M. LOCKE
Special Instructions:

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH205_0.1-0.2	16/5		SOIL	JAR	Standard.
	BH205_0.1-0.2	"		"	ZIP BAG.	"
	BH205-0.5-0.6	"		"	JAR	"
	BH205-0.5-0.6	"		"	ZIP BAG	"
	BH205_0.9-1.0	"		"	JAR.	"
	BH205_0.9-1.0	"		"	ZIP BAG	"
	BH205_2.0-2.35	"		"	JAR	"

Analysis Request Section

NOTES

#379367

RELINQUISHED BY

Name: G. LEE Date: 16/5/13.
Coffey Environments Time: 2.15 PM

Name: Date:
Company: Time:

RECEIVED BY

Name: SUE Date: 16/5/13
Company: EUROFIN MGT Time: 2.15 PM.

Name: Ellen WG Eurofins mgt/WOL Date: 160513
Company: Time: 17.00

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. ~~379340~~ 369357

*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

S.E

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ICC HOTEL GEOTLCOV24303AH
COC number:	107357
Turn around time:	5 Day
Date/Time received:	May 20, 2013 7:15 AM
Eurofins | mgt reference:	**379367**

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 Eurofins | mgt Sample Receipt : 5.5 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

Samples received 16/5/13 - analysis received 20/5/13 - TAT adjusted accordingly

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL GEOTLCOV24303AH

Order No.:
Report #: 379367
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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**					
BH205_0.1-0.2	May 16, 2013		Soil	S13-My14257			X		
BH205_0.1-0.2_BAG	May 16, 2013		Soil	S13-My14258			X		
BH205_0.5-0.6	May 16, 2013		Soil	S13-My14259	X			X	X
BH205_0.5-0.6_BAG	May 16, 2013		Soil	S13-My14260		X			
BH205_0.9-1.0	May 16, 2013		Soil	S13-My14261	X			X	X
BH205_0.9-1.0_BAG	May 16, 2013		Soil	S13-My14262			X		
BH205_2.0-2.35	May 16, 2013		Soil	S13-My14263	X			X	X

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **379367-S**
Client Reference ICC HOTEL GEOTLCOV24303AH
Received Date May 20, 2013

Client Sample ID			BH205_0.5-0.6	BH205_0.5-0.6_BAG	BH205_0.9-1.0	BH205_2.0-2.35
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My14259**	**S13-My14260**	**S13-My14261**	**S13-My14263**
Date Sampled			**May 16, 2013**	**May 16, 2013**	**May 16, 2013**	**May 16, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	-	93	88
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			BH205_0.5-0.6	BH205_0.5-0.6_BAG	BH205_0.9-1.0	BH205_2.0-2.35
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My14259**	**S13-My14260**	**S13-My14261**	**S13-My14263**
Date Sampled			**May 16, 2013**	**May 16, 2013**	**May 16, 2013**	**May 16, 2013**
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
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	%	118	-	117	120
p-Terphenyl-d14 (surr.)	1	%	97	-	89	99
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	7.4	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	5.2	5.5
Copper	5	mg/kg	58	-	11	5.6
Lead	5	mg/kg	< 5	-	12	12
Mercury	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Nickel	5	mg/kg	110	-	< 5	< 5
Zinc	5	mg/kg	55	-	8.0	24
% Moisture	0.1	%	8.5	-	13	11
Asbestos			-	see attached	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 21, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 21, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 21, 2013	28 Day
- Method: E005 Moisture Content			

eurofins | mgt

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3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL GEOTLCOV24303AH

Order No.:
Report #: 379367
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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**					
BH205_0.1-0.2	May 16, 2013		Soil	S13-My14257			X		
BH205_0.1-0.2_BAG	May 16, 2013		Soil	S13-My14258			X		
BH205_0.5-0.6	May 16, 2013		Soil	S13-My14259	X			X	X
BH205_0.5-0.6_BAG	May 16, 2013		Soil	S13-My14260		X			
BH205_0.9-1.0	May 16, 2013		Soil	S13-My14261	X			X	X
BH205_0.9-1.0_BAG	May 16, 2013		Soil	S13-My14262			X		
BH205_2.0-2.35	May 16, 2013		Soil	S13-My14263	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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 C10-C14	%	77			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
TRH >C10-C16	%	84			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	124			70-130	Pass	
Benz(a)anthracene	%	111			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	109			70-130	Pass	
Benzo(g.h.i)perylene	%	104			70-130	Pass	
Chrysene	%	118			70-130	Pass	
Dibenz(a.h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	99			70-130	Pass	
Naphthalene	%	118			70-130	Pass	
Phenanthrene	%	120			70-130	Pass	
Pyrene	%	119			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	89			70-130	Pass	
Cadmium	%	99			70-130	Pass	
Chromium	%	93			70-130	Pass	
Copper	%	104			70-130	Pass	
Lead	%	98			70-130	Pass	
Mercury	%	107			70-130	Pass	
Nickel	%	95			70-130	Pass	
Zinc	%	106			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	S13-My16846	NCP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My16846	NCP	%	89			70-130	Pass	
Toluene	S13-My16846	NCP	%	90			70-130	Pass	
Ethylbenzene	S13-My16846	NCP	%	92			70-130	Pass	
m&p-Xylenes	S13-My16846	NCP	%	91			70-130	Pass	
o-Xylene	S13-My16846	NCP	%	91			70-130	Pass	
Xylenes - Total	S13-My16846	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My16846	NCP	%	84			70-130	Pass	
TRH C6-C10	S13-My16846	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My11997	NCP	%	129			70-130	Pass	
Acenaphthylene	S13-My11997	NCP	%	125			70-130	Pass	
Anthracene	S13-My11997	NCP	%	124			70-130	Pass	
Benz(a)anthracene	S13-My11997	NCP	%	126			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(a)pyrene	S13-My11997	NCP	%	129			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	NCP	%	124			70-130	Pass	
Benzo(g.h.i)perylene	S13-My11997	NCP	%	110			70-130	Pass	
Chrysene	S13-My11997	NCP	%	103			70-130	Pass	
Dibenz(a.h)anthracene	S13-My11997	NCP	%	129			70-130	Pass	
Fluoranthene	S13-My11997	NCP	%	114			70-130	Pass	
Fluorene	S13-My11997	NCP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My11997	NCP	%	125			70-130	Pass	
Naphthalene	S13-My11997	NCP	%	125			70-130	Pass	
Phenanthrene	S13-My11997	NCP	%	123			70-130	Pass	
Pyrene	S13-My11997	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My16588	NCP	%	94			70-130	Pass	
Cadmium	S13-My16588	NCP	%	84			70-130	Pass	
Chromium	S13-My16588	NCP	%	84			70-130	Pass	
Copper	S13-My16282	NCP	%	73			70-130	Pass	
Lead	S13-My11997	NCP	%	117			70-130	Pass	
Mercury	S13-My16588	NCP	%	86			70-130	Pass	
Nickel	S13-My16588	NCP	%	93			70-130	Pass	
Zinc	S13-My17014	NCP	%	80			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My16588	NCP	mg/kg	5.7	7.4	27	30%	Pass	
Cadmium	S13-My16588	NCP	mg/kg	0.98	0.95	3.0	30%	Pass	
Chromium	S13-My16588	NCP	mg/kg	14	22	42	30%	Fail	Q13
Copper	S13-My16282	NCP	mg/kg	32	29	10	30%	Pass	
Lead	S13-My16588	NCP	mg/kg	260	320	20	30%	Pass	
Mercury	S13-My16588	NCP	mg/kg	0.17	0.20	20	30%	Pass	
Nickel	S13-My16588	NCP	mg/kg	14	23	49	30%	Fail	Q13
Zinc	S13-My16588	NCP	mg/kg	610	700	14	30%	Pass	

Comments

Please note: Asbestos analysed by ASET (Job : ASET33371/36551/1-1) 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.
Q13	Some elements for this test have failed in the QC sample. However when at least 80% have passed the QC can be released. All other QC has passed in this test batch

Authorised By

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

coffey

Chain of Custody

No: 20980

Laboratory Quotation / Order No: GEOTLCOV24303AH

Job No: GL24303AH Sheet of

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: MATTHEW LOCKE (report results to) Matthew.Locke@coffey.com	Courier Service: / Consignment Note No: #137380011

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
CHARLIE LEE COFFEY	22/5/13	1:50pm	SUE EUROFIN MGT	22/5/13	1-50PM
			Ellen NG Eurofins mgt	220513	16:40.

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs = BTEX	Metals:	Sample Condition on Receipt
Hold testing instruction until further notice from Matt		Jar	BH208 0.2-0.3m	21/5/13					
		Zip bag	BH208 0.2-0.3m	"					
		Jar	BH208 0.5-0.6m	"					
		Zip bag	BH208 0.5-0.6m	"					
		Jar	BH208 1-1.1m	"					
		Zip bag	BH208 1.1-1m	"					
		Jar	BH208 2-2.1m	"					
		Zip bag	BH208 2-2.1m	"					
		Jar	BH208 3-3.1	"					
		Zip bag	BH208 3-3.1	"					
		Jar	BH208 DUP 3-3.1A	"					

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

4.5 22/5/13 4-40PM.

6422009-06

380011

Sent

-----Original Message-----
From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Thursday, 23 May 2013 8:37 AM
To: Enviro Syd
Cc: Enquiries Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380011 : Site GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for samples within batch 380011.

Please let me know if you have any queries regarding the enclosed.

Thanks and regards,

Matt

* 380011

Sent 19

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

COC Reference: 20980

Lab Batch Reference: 380011

Sample Ref	Containter Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH_F/pH_{FOX})	BTEX & TPH C6-C9
BH208_0.2-0.3	Jar					
BH208_0.2-0.3	Zip bag					
BH208_0.5-0.6	Jar	X	X	X		
BH208_0.5-0.6	Zip bag					
BH208_1.0-1.1	Jar					
BH208_1.0-1.1	Zip bag					
BH208_2.0-2.1	Jar	X	X			
BH208_2.0-2.1	Zip bag					
BH208_3.0-3.1	Jar	X	X			
BH208_3.0-3.1	Zip bag					
BH208 DUP 3.0-3.1_A**	Jar	X	X			

** Please report Samples 'BH208 DUP 3.0-3.1_A' as 'BH208 3.0-3.1_A' to remain consistent wthe nomenclature used in other investigation positions at this site.

eurofins | mgt

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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	GEOTLCOV24303AH
COC number:	20980
Turn around time:	Same day
Date/Time received:	May 22, 2013 4:40 PM
Eurofins | mgt reference:	**380011**

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 Eurofins | mgt Sample Receipt : 4.5 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

Jar and bag treated as the same sample unless otherwise stated

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **380011-S**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 23, 2013

Client Sample ID			BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My18848**	**S13-My18850**	**S13-My18851**	**S13-My18852**
Date Sampled			**May 21, 2013**	**May 21, 2013**	**May 21, 2013**	**May 21, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	91	77	84
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
Polycyclic Aromatic Hydrocarbons						
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	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	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

Client Sample ID			BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My18848**	**S13-My18850**	**S13-My18851**	**S13-My18852**
Date Sampled			**May 21, 2013**	**May 21, 2013**	**May 21, 2013**	**May 21, 2013**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	< 0.5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	71	74	70
2-Fluorobiphenyl (surr.)	1	%	85	76	76	81
Heavy Metals						
Arsenic	2	mg/kg	4.4	5.3	4.5	4.1
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	24	< 5	< 5	5.9
Lead	5	mg/kg	14	< 5	< 5	< 5
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	9.6	< 5	< 5	< 5
Zinc	5	mg/kg	40	7.5	270	250
% Moisture	0.1	%	6.4	4.8	20	19
Asbestos			see attached	-	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 27, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 24, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 27, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 27, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 24, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 24, 2013	28 Day
- Method: E005 Moisture Content			

eurofins | mgt

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380011
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 23, 2013 8:37 AM
Due: May 30, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins | mgt 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**					
BH208 0.2-0.3m	May 21, 2013		Soil	S13-My18847			X		
BH208 0.5-0.6m	May 21, 2013		Soil	S13-My18848	X	X		X	X
BH208 1-1.1m	May 21, 2013		Soil	S13-My18849			X		
BH208 2-2.1m	May 21, 2013		Soil	S13-My18850	X			X	X
BH208 3-3.1m	May 21, 2013		Soil	S13-My18851	X			X	X
BH208 DUP 3-3.1mA	May 21, 2013		Soil	S13-My18852	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	100			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	107			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Xylenes - Total	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	108			70-130	Pass	
TRH C6-C10	%	97			70-130	Pass	
TRH >C10-C16	%	110			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	97			70-130	Pass	
Acenaphthylene	%	81			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	91			70-130	Pass	
Benzo(g.h.i)perylene	%	87			70-130	Pass	
Chrysene	%	92			70-130	Pass	
Dibenz(a.h)anthracene	%	88			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	94			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	87			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	91			70-130	Pass	
Pyrene	%	86			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	94			70-130	Pass	
Cadmium	%	88			70-130	Pass	
Chromium	%	80			70-130	Pass	
Copper	%	101			70-130	Pass	
Lead	%	106			70-130	Pass	
Mercury	%	105			70-130	Pass	
Nickel	%	89			70-130	Pass	
Zinc	%	106			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	S13-My19515	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My19530	NCP	%	100			70-130	Pass	
Toluene	S13-My19530	NCP	%	95			70-130	Pass	
Ethylbenzene	S13-My19530	NCP	%	94			70-130	Pass	
m&p-Xylenes	S13-My19530	NCP	%	105			70-130	Pass	
o-Xylene	S13-My19530	NCP	%	103			70-130	Pass	
Xylenes - Total	S13-My19515	NCP	%	104			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My19530	NCP	%	82			70-130	Pass	
TRH C6-C10	S13-My19515	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My18807	NCP	%	91			70-130	Pass	
Cadmium	S13-My18807	NCP	%	76			70-130	Pass	
Chromium	S13-My18807	NCP	%	106			70-130	Pass	
Copper	S13-My18807	NCP	%	126			70-130	Pass	
Lead	S13-My18807	NCP	%	81			70-130	Pass	
Mercury	S13-My18807	NCP	%	107			70-130	Pass	
Nickel	S13-My18807	NCP	%	98			70-130	Pass	
Zinc	S13-My18807	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S13-My18852	CP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
TRH >C10-C16	S13-My18852	CP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My18852	CP	%	107			70-130	Pass	
Acenaphthylene	S13-My18852	CP	%	88			70-130	Pass	
Anthracene	S13-My18852	CP	%	102			70-130	Pass	
Benz(a)anthracene	S13-My18852	CP	%	97			70-130	Pass	
Benzo(a)pyrene	S13-My18852	CP	%	100			70-130	Pass	
Benzo(g.h.i)perylene	S13-My18852	CP	%	93			70-130	Pass	
Chrysene	S13-My18852	CP	%	104			70-130	Pass	
Dibenz(a.h)anthracene	S13-My18852	CP	%	93			70-130	Pass	
Fluoranthene	S13-My18852	CP	%	100			70-130	Pass	
Fluorene	S13-My18852	CP	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My18852	CP	%	94			70-130	Pass	
Naphthalene	S13-My18852	CP	%	103			70-130	Pass	
Phenanthrene	S13-My18852	CP	%	105			70-130	Pass	
Pyrene	S13-My18852	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	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My19530	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My19515	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My19530	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My18807	NCP	mg/kg	5.6	4.7	19	30%	Pass	
Cadmium	S13-My18807	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My18807	NCP	mg/kg	15	10	40	30%	Fail	Q15
Copper	S13-My18807	NCP	mg/kg	23	21	7.0	30%	Pass	
Lead	S13-My18807	NCP	mg/kg	43	36	19	30%	Pass	
Mercury	S13-My18807	NCP	mg/kg	< 0.05	0.11	95	30%	Fail	Q15
Nickel	S13-My18807	NCP	mg/kg	14	11	29	30%	Pass	
Zinc	S13-My18807	NCP	mg/kg	60	47	24	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S13-My18852	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My18852	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My18852	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Asbestos analysed by: ASET, NATA accreditation no. 14484, report reference ASET33435/ 36615 / 1 - 1.

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 Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

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

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref : ASET33435/ 36615 / 1 - 1
Your ref : 380011
NATA Accreditation No: 14484

29 May 2013

Eurofins | mgt
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 one sample, forwarded by Eurofins MGT on 27 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was 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. ASET33435 / 36615 / 1. 380011 - BH208 - 0.5 - 0.6m - My18848.**
Approx dimensions 6.0 cm x 6.0 cm x 2..0 cm
The sample consisted of a mixture of clayish sandy soil, sandstones and plant matter.
No asbestos detected.

Analysed and reported by,

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

WORLD RECOGNISED ACCREDITATION

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

coffey

Chain of Custody

No: 20981

Laboratory Quotation / Order No: GEOTLCOV24303AH Job No: Sheet of

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer: Date Dispatched: #380167
Attention:	Project Manager: (report results to) MATT LOCKIE matthew.lockie@coffey.com	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
CHARLIE LEE COFFEY	23/5/13	2PM.	SUE EUROFINS MGT	23/5/13	2PM

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs = BTEX	Metals:	ASS SCREENING										Sample Condition on Receipt
Hold testing instruction until further notice from Matt		Jar	BH202 0.1-0.2																
		Zip Bag	BH202 0.1-0.2																
		Jar	BH 202 0.5-0.6																
		Zip Bag	BH202 0.5-0.6																
		Jar	BH202 0.6-0.7																
		Zip Bag	BH202 0.6-0.7																
		Jar	DUP 4																
		Zip Bag	ASS 0.6-0.7 BH202						X										

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

642209-06

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

19.0 23/5/13 4-30PM.

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference: 380167

Sample Ref	Containter Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH_F/pH_{FOX})	BTEX & TPH C6-C9
BH202 0.1-0.2	Jar	X	X			
BH202 0.1-0.2	Zip bag					
BH202 0.5-0.6	Jar	X	X			
BH202 0.5-0.6	Zip bag			X		
BH202 0.6-0.7	Jar					
BH202 0.6-0.7	Zip bag					
DUP4	Jar	X	X			
ASS_BH202 0.6-0.7	Zip bag				X	

Recd 240513 17:50 Ellen WG Eurofins mgt # 380167

-----Original Message-----
From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Friday, 24 May 2013 5:52 PM
To: Enviro Syd
Cc: Enquiries Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380167 : Site GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for batch 380167 for the ICC Hotel site in Darling Harbour

Please let me know if you have any queries.

Regards,

Matt

MGT # 380167

-----Original Message-----
From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]
Sent: Friday, 24 May 2013 10:27 AM
To: Matthew Locke
Subject: Eurofins | mgt Sample Receipt Advice - Report 380167 : Site GEOTLCOV24303AH

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

Administration/ Sample Receipt

admin.syd@mgtLabMark.com.au

Unit F6, Unit F3,
Building F
16 Mars Road
Lane Cove West, NSW 2066
T:(+61) (2) 8215 6222
F:(+61) (2) 9420 2977

M: 04xxxxxxxx

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	GEOTLCOV24303AH
COC number:	20981
Turn around time:	5 Day
Date/Time received:	May 23, 2013 4:30 PM
Eurofins | mgt reference:	**380167**

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 Eurofins | mgt Sample Receipt : 19 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

Sampling date taken from jar/bag

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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**						
BH202 0.1-0.2	May 23, 2013		Soil	S13-My20052	X				X	X
BH202 0.1-0.2 BAG	May 23, 2013		Soil	S13-My20053			X			
BH202 0.5-0.6	May 23, 2013		Soil	S13-My20054	X				X	X
BH202 0.5-0.6 BAG	May 23, 2013		Soil	S13-My20055		X				
BH202 0.6-0.7	May 23, 2013		Soil	S13-My20056			X			
BH202 0.6-0.7 BAG	May 23, 2013		Soil	S13-My20057			X			
DUP4	May 23, 2013		Soil	S13-My20058	X				X	X

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Unit F6, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 24, 2013 5:50 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	380167	**Due:**	Jun 3, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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				
ASS_BH202 0.6-0.7	May 23, 2013		Soil	S13-My20059				X		

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **380167-S**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 24, 2013

Client Sample ID			BH202 0.1-0.2	BH202 0.5-0.6	BH202 0.5-0.6 BAG	DUP4
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My20052**	**S13-My20054**	**S13-My20055**	**S13-My20058**
Date Sampled			**May 23, 2013**	**May 23, 2013**	**May 23, 2013**	**May 23, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	83	< 50	-	< 50
TRH C29-C36	50	mg/kg	230	55	-	< 50
TRH C10-36 (Total)	50	mg/kg	310	55	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	88	-	94
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	260	< 100	-	< 100
TRH >C34-C40	100	mg/kg	200	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
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	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
Benzo(k)fluoranthene	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			BH202 0.1-0.2	BH202 0.5-0.6	BH202 0.5-0.6 BAG	DUP4
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My20052**	**S13-My20054**	**S13-My20055**	**S13-My20058**
Date Sampled			**May 23, 2013**	**May 23, 2013**	**May 23, 2013**	**May 23, 2013**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	< 0.5	< 0.5	-	< 0.5
p-Terphenyl-d14 (surr.)	1	%	78	74	-	72
2-Fluorobiphenyl (surr.)	1	%	93	91	-	87
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.5	-	5.5
Cadmium	0.4	mg/kg	< 0.4	0.5	-	0.5
Chromium	5	mg/kg	25	< 5	-	< 5
Copper	5	mg/kg	66	33	-	37
Lead	5	mg/kg	5.8	35	-	41
Mercury	0.05	mg/kg	< 0.05	29	-	35
Nickel	5	mg/kg	130	41	-	50
Zinc	5	mg/kg	60	140	-	160
% Moisture	0.1	%	9.9	8.3	-	9.9
Asbestos			-	-	see attached	-

Client Sample ID			ASS_BH202 0.6-0.7
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S13-My20059**
Date Sampled			**May 23, 2013**
Test/Reference	LOR	Unit	
Acid Sulphate Soils Field pH Test			
pH-F (Field pH test)	0.1	units	8.2
pH-FOX (Field pH Peroxide test)	0.1	units	5.8
Reaction Ratings		comment	Low

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 28, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 25, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 28, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 28, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 25, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Acid Sulphate Soils Field pH Test	Sydney	May 27, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			
% Moisture	Sydney	May 25, 2013	28 Day
- Method: E005 Moisture Content			

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	101			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	102			70-130	Pass	
Xylenes - Total	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	96			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	95			70-130	Pass	
Acenaphthylene	%	81			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	91			70-130	Pass	
Cadmium	%	97			70-130	Pass	
Chromium	%	96			70-130	Pass	
Copper	%	121			70-130	Pass	
Lead	%	92			70-130	Pass	
Mercury	%	101			70-130	Pass	
Nickel	%	98			70-130	Pass	
Zinc	%	109			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	S13-My18954	NCP	%	106			70-130	Pass	
TRH C10-C14	S13-My18992	NCP	%	93			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My18965	NCP	%	98			70-130	Pass	
Toluene	S13-My18965	NCP	%	98			70-130	Pass	
Ethylbenzene	S13-My18965	NCP	%	99			70-130	Pass	
m&p-Xylenes	S13-My18965	NCP	%	98			70-130	Pass	
o-Xylene	S13-My18965	NCP	%	99			70-130	Pass	
Xylenes - Total	S13-My18965	NCP	%	99			70-130	Pass	

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	S13-My18965	NCP	%	94			70-130	Pass	
TRH C6-C10	S13-My18965	NCP	%	97			70-130	Pass	
TRH >C10-C16	S13-My18992	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My21299	NCP	%	98			70-130	Pass	
Acenaphthylene	S13-My21299	NCP	%	86			70-130	Pass	
Anthracene	S13-My21299	NCP	%	98			70-130	Pass	
Benz(a)anthracene	S13-My21299	NCP	%	96			70-130	Pass	
Benzo(a)pyrene	S13-My21299	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	%	82			70-130	Pass	
Chrysene	S13-My21299	NCP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	%	87			70-130	Pass	
Fluoranthene	S13-My21299	NCP	%	97			70-130	Pass	
Fluorene	S13-My21299	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	%	88			70-130	Pass	
Naphthalene	S13-My21299	NCP	%	97			70-130	Pass	
Phenanthrene	S13-My21299	NCP	%	101			70-130	Pass	
Pyrene	S13-My21299	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My20439	NCP	%	108			70-130	Pass	
Cadmium	S13-My20439	NCP	%	102			70-130	Pass	
Chromium	S13-My20439	NCP	%	78			70-130	Pass	
Copper	S13-My20439	NCP	%	100			70-130	Pass	
Lead	S13-My20439	NCP	%	111			70-130	Pass	
Mercury	S13-My21556	NCP	%	104			70-130	Pass	
Nickel	S13-My20439	NCP	%	101			70-130	Pass	
Zinc	S13-My20439	NCP	%	85			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	S13-My18954	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My18992	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My18965	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My18965	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My18965	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My18965	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My18965	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My18992	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My18992	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My20439	NCP	mg/kg	6.4	5.7	12	30%	Pass	
Cadmium	S13-My20439	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My20439	NCP	mg/kg	19	19	1.0	30%	Pass	
Copper	S13-My20439	NCP	mg/kg	18	18	1.0	30%	Pass	
Lead	S13-My20439	NCP	mg/kg	30	29	1.0	30%	Pass	
Mercury	S13-My21556	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S13-My20439	NCP	mg/kg	15	16	3.0	30%	Pass	
Zinc	S13-My20439	NCP	mg/kg	53	49	7.0	30%	Pass	

Comments

Asbestos analysed by: ASET, NATA Accreditation no.14484, report reference ASET33431/36611/1-1

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.

Authorised By

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

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Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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**						
BH202 0.1-0.2	May 23, 2013		Soil	S13-My20052	X				X	X
BH202 0.1-0.2 BAG	May 23, 2013		Soil	S13-My20053			X			
BH202 0.5-0.6	May 23, 2013		Soil	S13-My20054	X				X	X
BH202 0.5-0.6 BAG	May 23, 2013		Soil	S13-My20055		X				
BH202 0.6-0.7	May 23, 2013		Soil	S13-My20056			X			
BH202 0.6-0.7 BAG	May 23, 2013		Soil	S13-My20057			X			
DUP4	May 23, 2013		Soil	S13-My20058	X				X	X

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 24, 2013 5:50 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	380167	**Due:**	Jun 3, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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				
ASS_BH202 0.6-0.7	May 23, 2013		Soil	S13-My20059				X		

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref: ASET33431/ 36611 / 1 - 1
Your ref: 380167
NATA Accreditation No: 14484

28 May 2013

Eurofins | mgt
Unit F3, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification
This report presents the results of one sample, forwarded by Eurofins | mgt on 27 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was 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. ASET33431 / 36611 / 1. BH202 - 0.1-0.2 BAG - My20053**
Approx dimensions 5.5 cm x 5.4 cm x 2.8 cm
The sample consisted of a mixture of soil, stones, sandstones and fragments of plaster.
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.

coffey

Chain of Custody

No: 20982

Laboratory Quotation / Order No:

Job No: GEOTCOV24305AA

Sheet 1 of

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) Matt Locke Matthew.Locke@coffey.com	Courier Service: / Consignment Note No: #380366

Relinquished by:	Date:	Time	Received by:	Date:	Time:
CHARLIE LEE COFFEY	24/5/13	11am	SUE Eurofins MGT	24/5/13	11am
			Elkay Neg Eurofins mgt	240513	14:10

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs = BTEX	Metals:	BS Screening										Sample Condition on Receipt
Hold testing until further instructions from Matt		Jar	BH203 0.1-0.2																
		Zip Bag	BH203 0.1-0.2																
		Jar	BH203 0.5-0.6																
		Zip Bag	BH203 0.5-0.6																
		Jar	BH203 0.9-1																
		Zip Bag	BH203 0.9-1																
		Jar	DUP 5																
		Jar	BH203 1.4-1.5																
		Zip Bag	BH203 1.4-1.5																
		Jar	BH203 1.8-2.1																
		Zip Bag	[redacted] ASS 1.8-2.1						X										

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

64220/9-06

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

2.5 24/5/13 2-10pm

-----Original Message-----
From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Monday, 27 May 2013 5:35 PM
To: Enviro Syd
Cc: Enquiries Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380366 : Site HOLD: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for batch 380366.

Please let us know if there are any queries.

Regards,

Matt

-----Original Message-----
From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]
Sent: Saturday, 25 May 2013 2:30 PM
To: Matthew Locke
Subject: Eurofins | mgt Sample Receipt Advice - Report 380366 : Site HOLD: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Dear Valued Client,
NOTE: this job is currently on HOLD awaiting your further advice. Please be aware that holding times for some analytes may run out shortly. Any samples that are received in our lab that have not been scheduled for testing may be charged a demurrage fee per sample to cover the supply of the container, handling, storage and disposal.

If advice is not received in 30 days this job will be cancelled and an invoice issued.

For all additional requests please cc our generic e-mail address enviro.syd@mgtLabMark.com.au to ensure that your e-mail is acted upon expeditiously.

Ellen Wandala Gamage
Sample Receipt | NSW

---

coffey

Chain of Custody

No: 20982

Laboratory Quotation / Order No:

Job No: GEOTCOV24305 AH Page 1 of

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer. Date Dispatched:
Attention:	Project Manager: (report results to) Matt Locke Matthew.locke@coffey.com	Courier Service: Consignment Note No: #38036

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
CHARLIE LEE COFFEY	24/5/13	11am	SUE Eurofins MGT	24/5/13	11AM
			Eurofins	240513	14'10

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	MAHs = BTEX	Metals:	B(a) Screening	Suite BA (TPH/BTEX/PAH)	Suite M8 METALS	ASBESTOS	Sample Condition on Receipt
Hold testing until further instructions from Matt		Jar	BH203 0.1-0.2										
		Zip Bag	BH203 0.1-0.2										
		Jar	BH203 0.5-0.6							X	X	X	
		Zip Bag	BH203 0.5-0.6									X	
		Jar	BH203 0.9-1							X	X		
		Zip Bag	BH203 0.9-1										
		Jar	DUP 5										
		Jar	BH203 1.4-1.5							X	X		
		Zip Bag	BH203 1.4-1.5										
		Jar	BH203 1.8-2.1										
		Zip Bag	[redacted] ASS 1.8-2.1						X				

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

2:5 24/5/13 2-10DM

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
COC number:	20982
Turn around time:	5 Day
Date/Time received:	May 27, 2013 5:35 PM
Eurofins | mgt reference:	**380366**

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 Eurofins | mgt Sample Receipt : 2.5 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

Samples received 24/5, Analysis received 27/5 and TAT adjusted accordingly

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380366
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 27, 2013 5:35 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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**						
BH203 0.1-0.2	May 24, 2013		Soil	S13-My21496			X			
BH203 0.5-0.6	May 24, 2013		Soil	S13-My21497	X	X			X	X
BH203 0.9-1	May 24, 2013		Soil	S13-My21498	X				X	X
DUP5	May 24, 2013		Soil	S13-My21499			X			
BH203 1.4-1.5	May 24, 2013		Soil	S13-My21500	X				X	X
BH203 1.8-2.0	May 24, 2013		Soil	S13-My21501			X			
ASS_1.8-2.0	May 24, 2013		Soil	S13-My21502				X		

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **380366-S**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 27, 2013

Client Sample ID			BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	ASS_1.8-2.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My21497**	**S13-My21498**	**S13-My21500**	**S13-My21502**
Date Sampled			**May 24, 2013**	**May 24, 2013**	**May 24, 2013**	**May 24, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	93	91	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	-
Polycyclic Aromatic Hydrocarbons						
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	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	-
Benzo(k)fluoranthene	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 Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	BH203 0.5-0.6 Soil S13-My21497 May 24, 2013	BH203 0.9-1 Soil S13-My21498 May 24, 2013	BH203 1.4-1.5 Soil S13-My21500 May 24, 2013	ASS_1.8-2.0 Soil S13-My21502 May 24, 2013
Polycyclic Aromatic Hydrocarbons						
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	< 0.5	< 0.5	< 0.5	-
p-Terphenyl-d14 (surr.)	1	%	84	81	93	-
2-Fluorobiphenyl (surr.)	1	%	101	97	110	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	-
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	-
Chromium	5	mg/kg	9.3	14	< 5	-
Copper	5	mg/kg	56	63	17	-
Lead	5	mg/kg	< 5	< 5	19	-
Mercury	0.05	mg/kg	< 0.05	< 0.05	0.29	-
Nickel	5	mg/kg	120	100	16	-
Zinc	5	mg/kg	41	44	59	-
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	-	-	-	7.9
pH-FOX (Field pH Peroxide test)	0.1	units	-	-	-	5.4
Reaction Ratings		comment	-	-	-	Low
% Moisture	0.1	%	11	11	7.3	-
Asbestos			see attached	-	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 31, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 29, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 28, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Acid Sulphate Soils Field pH Test	Sydney	May 29, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			
% Moisture	Sydney	May 28, 2013	28 Day
- Method: E005 Moisture Content			

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380366
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 27, 2013 5:35 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins | mgt Suite 4
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**						
BH203 0.1-0.2	May 24, 2013		Soil	S13-My21496			X			
BH203 0.5-0.6	May 24, 2013		Soil	S13-My21497	X	X			X	X
BH203 0.9-1	May 24, 2013		Soil	S13-My21498	X				X	X
DUP5	May 24, 2013		Soil	S13-My21499			X			
BH203 1.4-1.5	May 24, 2013		Soil	S13-My21500	X				X	X
BH203 1.8-2.0	May 24, 2013		Soil	S13-My21501			X			
ASS_1.8-2.0	May 24, 2013		Soil	S13-My21502				X		

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	95			70-130	Pass	
Acenaphthylene	%	81			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	78			70-130	Pass	
Cadmium	%	86			70-130	Pass	
Chromium	%	85			70-130	Pass	
Copper	%	95			70-130	Pass	
Lead	%	85			70-130	Pass	
Mercury	%	101			70-130	Pass	
Nickel	%	89			70-130	Pass	
Zinc	%	92			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	S13-My21497	CP	%	91			70-130	Pass	
TRH C10-C14	S13-My23302	NCP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My21497	CP	%	93			70-130	Pass	
Toluene	S13-My21497	CP	%	95			70-130	Pass	
Ethylbenzene	S13-My21497	CP	%	96			70-130	Pass	
m&p-Xylenes	S13-My21497	CP	%	95			70-130	Pass	
o-Xylene	S13-My21497	CP	%	95			70-130	Pass	
Xylenes - Total	S13-My21497	CP	%	95			70-130	Pass	

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	S13-My21497	CP	%	100			70-130	Pass	
TRH C6-C10	S13-My21497	CP	%	91			70-130	Pass	
TRH >C10-C16	S13-My23302	NCP	%	130			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My21299	NCP	%	98			70-130	Pass	
Acenaphthylene	S13-My21299	NCP	%	86			70-130	Pass	
Anthracene	S13-My21299	NCP	%	98			70-130	Pass	
Benz(a)anthracene	S13-My21299	NCP	%	96			70-130	Pass	
Benzo(a)pyrene	S13-My21299	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	%	82			70-130	Pass	
Chrysene	S13-My21299	NCP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	%	87			70-130	Pass	
Fluoranthene	S13-My21299	NCP	%	97			70-130	Pass	
Fluorene	S13-My21299	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	%	88			70-130	Pass	
Naphthalene	S13-My21299	NCP	%	97			70-130	Pass	
Phenanthrene	S13-My21299	NCP	%	101			70-130	Pass	
Pyrene	S13-My21299	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My21500	CP	%	98			70-130	Pass	
Cadmium	S13-My21500	CP	%	96			70-130	Pass	
Chromium	S13-My21500	CP	%	91			70-130	Pass	
Copper	S13-My21500	CP	%	97			70-130	Pass	
Lead	S13-My21500	CP	%	102			70-130	Pass	
Mercury	S13-My21500	CP	%	105			70-130	Pass	
Nickel	S13-My21500	CP	%	87			70-130	Pass	
Zinc	S13-My21500	CP	%	78			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	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My21539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My21497	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My21497	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My21497	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My21497	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My21497	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My21539	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My21539	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My21539	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My21500	CP	mg/kg	< 2	2.9	64	30%	Fail	Q15
Cadmium	S13-My21500	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My21500	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S13-My21500	CP	mg/kg	17	20	18	30%	Pass	
Lead	S13-My21500	CP	mg/kg	19	22	13	30%	Pass	
Mercury	S13-My21500	CP	mg/kg	0.29	0.12	85	30%	Fail	
Nickel	S13-My21500	CP	mg/kg	16	10	44	30%	Fail	Q15
Zinc	S13-My21500	CP	mg/kg	59	48	21	30%	Pass	

Comments

Asbestos analysed by: ASET, NATA Accreditation no.14484, report reference ASET33494/36674/1-1

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	No

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 Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

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

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref: ASET33494/ 36674 / 1 - 1
Your ref: 380366
NATA Accreditation No: 14484

31 May 2013

Eurofins | mgt
Unit F3, 16 Mars Road
Lane Cove NSW 2066

Attn: Mr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification
This report presents the results of one sample, forwarded by Eurofins | mgt on 31 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was 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. ASET33494 / 36674 / 1. BH203 - 0.5-0.6 - My21497**
Approx dimensions 7.5 cm x 7.4 cm x 3.6 cm
The sample consisted of a mixture of soil and stones.
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

NATA
WORLD RECOGNISED ACCREDITATION

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

coffey

Chain of Custody

#380524.

No: 20983

Laboratory Quotation / Order No:

Job No: GEOTECH26003AH Sheet 1 of 1

Dispatch to: (Address & Phone No.)	Sampled by: CHARLIE LEE	Consigning Officer: / Date Dispatched:
Attention:	Project Manager: (report results to) MATT LOCKE matthew.locke@coffey.com	Courier Service: / Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
CHARLIE LEE COFFEY	27/5/13	2PM	SUE Eurofin MGT	27/5/13	2PM

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs = BTEX	Metals:	ABS Screening										Sample Condition on Receipt
Hold testing		Jar	BH206 0.1-0.2m																
till further		Zip Bag	BH206 0.1-0.2m																
instructions from		Jar	BH206 0.4-0.6																
Matt		Jar	BH206 0.4-0.6A																
		Jar	BH206 0.4-0.6 B																
		Zip Bag	BH206 0.4-0.6																
		Jar	BH206 0.9-1																
		Zip Bag	BH206 0.9-1																
		Jar	BH206 1.1-1.4																
		Zip Bag	BH206 ABS 1.1-1.4						X										

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

642209-06

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey **BLUE:** To be returned with results.

22° 27/5/13 4-50PM.

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	GEOTLCOV24303AH
COC number:	20983
Turn around time:	5 Day
Date/Time received:	May 27, 2013 2:00 PM
Eurofins | mgt reference:	**380524**

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 Eurofins | mgt Sample Receipt : 22 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

ASS pH sample not received frozen

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: GEOTLCOV24303AH

Order No.:
Report #: 380524
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 27, 2013 2:00 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					HOLD	Acid Sulphate Soils Field pH Test
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH206 0.1-0.2M	May 27, 2013		Soil	S13-My22571	X	
BH206 0.4-0.6	May 27, 2013		Soil	S13-My22572	X	
BH206 0.4-0.6A	May 27, 2013		Soil	S13-My22573	X	
BH206 0.4-0.6B	May 27, 2013		Soil	S13-My22574	X	
BH206 0.9-1	May 27, 2013		Soil	S13-My22575	X	
BH206 1.1-1.4	May 27, 2013		Soil	S13-My22576	X	
BH206 ASS 1.1-1.4	May 27, 2013		Soil	S13-My22577		X

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.

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

Attention: **Matthew Locke**

Report **380524-S**
Client Reference GEOTLCOV24303AH
Received Date May 27, 2013

Client Sample ID			**BH206 ASS 1.1-1.4**
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S13-My22577**
Date Sampled			**May 27, 2013**
Test/Reference	LOR	Unit	
Acid Sulphate Soils Field pH Test			
pH-F (Field pH test)	0.1	units	8.9
pH-FOX (Field pH Peroxide test)	0.1	units	6.9
Reaction Ratings		comment	Low

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Sulphate Soils Field pH Test	Sydney	May 29, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 27, 2013 2:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	380524	**Due:**	Jun 3, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					HOLD	Acid Sulphate Soils Field pH Test
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH206 0.1-0.2M	May 27, 2013		Soil	S13-My22571	X	
BH206 0.4-0.6	May 27, 2013		Soil	S13-My22572	X	
BH206 0.4-0.6A	May 27, 2013		Soil	S13-My22573	X	
BH206 0.4-0.6B	May 27, 2013		Soil	S13-My22574	X	
BH206 0.9-1	May 27, 2013		Soil	S13-My22575	X	
BH206 1.1-1.4	May 27, 2013		Soil	S13-My22576	X	
BH206 ASS 1.1-1.4	May 27, 2013		Soil	S13-My22577		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
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	No

Authorised By

Jean Heng Client Services

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ___ of ___ 107358

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: CHATSWOOD
Report Results to: M. LOCKE — Mobile: 0427202493 Email: matthew_locke @coffey.com
Invoices to: M. LOCKE — Phone: " Email: " @coffey.com

Project No: GEOTLOV24303AH Task No:
Project Name: ICC HOTEL Laboratory: MAT LANE COVE
Sampler's Name: M. LOCKE / C. LEE Project Manager: M. LOCKE
Special Instructions:

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH201_0.5-0.6	27/5		SOIL	JAR+BAG	STD.
	BH201_0.9-1.0	"		"	"	
	BH201_0.9-1.0A	"		"	JAR.	
	BH201_1.9-2.0	"		"	"	
	BH201-2.5-2.6	"		"	"	
	—	"		"		
	BH201A_0.5-0.6	28/5		"	JAR+BAG	
	BH201A_0.9-1.0	"		"	"	
	BH201A_1.5-1.6	"		"	JAR	
	BH201A_1.5-1.6A	"		"	"	
	BH201A-1.9	"		"	"	
	RB2	28/5		WATER	500ML UNPRES 125ML PRESERV HNO3 VOC PHIAL.	
	BH209_0.2-0.3	"		SOIL	JAR+BAG	

Analysis Request Section: SUITE B4 (TPH/BTEX/PAH) | SUITE M8 (METALS) | ASBESTOS (AS4964) | NOTES

RELINQUISHED BY		RECEIVED BY	
Name: M. LOCKE	Date: 28/5/13	Name: Elkin WG	Date: 280513
Coffey Environments	Time: 13.00	Company: Evergreens mgt	Time: ~~17~~ 15:00
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)
All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 380677

*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

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
COC number:	107358
Turn around time:	5 Day
Date/Time received:	May 28, 2013 3:00 PM
Eurofins | mgt reference:	**380677**

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 Eurofins | mgt Sample Receipt : 7.5 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.

☑ Sample containers for volatile analysis received with zero headspace.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Asbestos conducted by ASET

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.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **380677-S**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 28, 2013

Client Sample ID			BH201_0.5-0.6	BH201_0.9-1.0	BH201_0.9-1.0A	BH201_1.9-2.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23531**	**S13-My23532**	**S13-My23533**	**S13-My23534**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	91	89	94
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
Polycyclic Aromatic Hydrocarbons						
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	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	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

Client Sample ID			BH201_0.5-0.6	BH201_0.9-1.0	BH201_0.9-1.0A	BH201_1.9-2.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23531**	**S13-My23532**	**S13-My23533**	**S13-My23534**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	< 0.5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	71	75	72
2-Fluorobiphenyl (surr.)	1	%	90	85	93	91
Heavy Metals						
Arsenic	2	mg/kg	3.6	< 2	< 2	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.9	6.7	6.4	< 5
Copper	5	mg/kg	23	18	18	6.1
Lead	5	mg/kg	9.5	17	14	8.6
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	9.0	< 5	< 5	< 5
Zinc	5	mg/kg	34	34	36	24
% Moisture	0.1	%	17	9.8	12	2.3
Asbestos			see attached	-	-	-

Client Sample ID			BH201A_0.5-0.6	BH201A_1.5-1.6	BH201A_1.5-1.6A	BH209_0.2-0.3
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23536**	**S13-My23538**	**S13-My23539**	**S13-My23542**
Date Sampled			**May 28, 2013**	**May 28, 2013**	**May 28, 2013**	**May 28, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	690	< 50	< 50	180
TRH C29-C36	50	mg/kg	2700	< 50	< 50	180
TRH C10-36 (Total)	50	mg/kg	3400	< 50	< 50	360
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	93	91	86
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			BH201A_0.5-0.6	BH201A_1.5-1.6	BH201A_1.5-1.6A	BH209_0.2-0.3
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My23536**	**S13-My23538**	**S13-My23539**	**S13-My23542**
Date Sampled			**May 28, 2013**	**May 28, 2013**	**May 28, 2013**	**May 28, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C16-C34	100	mg/kg	2500	< 100	< 100	330
TRH >C34-C40	100	mg/kg	2300	< 100	< 100	150
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	73	72	73
2-Fluorobiphenyl (surr.)	1	%	89	90	88	91
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.5	2.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.5	< 5	< 5	9.3
Copper	5	mg/kg	12	13	5.0	28
Lead	5	mg/kg	< 5	20	23	< 5
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	20	< 5	< 5	49
Zinc	5	mg/kg	22	220	200	31
% Moisture	0.1	%	2.5	5.6	6.5	9.2
Asbestos			see attached	-	-	see attached

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 31, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 31, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 30, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 29, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 29, 2013	28 Day
- Method: E005 Moisture Content			

eurofins | mgt

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

eurofins | mgt

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Brisbane
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Murarrie QLD 4172
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NATA # 1261 Site # 20794

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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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	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							
Polycyclic Aromatic Hydrocarbons 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(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)							
TRH C6-C9	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	86			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	116			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	123			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	108			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Chrysene	%	117			70-130	Pass	
Dibenz(a.h)anthracene	%	106			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	114			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	111			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	%	80			70-130	Pass	
Cadmium	%	89			70-130	Pass	
Chromium	%	88			70-130	Pass	
Copper	%	125			70-130	Pass	
Lead	%	86			70-130	Pass	
Mercury	%	110			70-130	Pass	
Nickel	%	93			70-130	Pass	
Zinc	%	86			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	S13-My23531	CP	%	78			70-130	Pass	
TRH C10-C14	S13-My23531	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My23531	CP	%	79			70-130	Pass	
Toluene	S13-My23531	CP	%	85			70-130	Pass	
Ethylbenzene	S13-My23531	CP	%	85			70-130	Pass	
m&p-Xylenes	S13-My23531	CP	%	86			70-130	Pass	
o-Xylene	S13-My23531	CP	%	85			70-130	Pass	
Xylenes - Total	S13-My23531	CP	%	85			70-130	Pass	

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	S13-My23531	CP	%	86			70-130	Pass	
TRH C6-C10	S13-My23531	CP	%	77			70-130	Pass	
TRH >C10-C16	S13-My23531	CP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My23531	CP	%	109			70-130	Pass	
Acenaphthylene	S13-My23531	CP	%	106			70-130	Pass	
Anthracene	S13-My23531	CP	%	114			70-130	Pass	
Benz(a)anthracene	S13-My23531	CP	%	99			70-130	Pass	
Benzo(a)pyrene	S13-My23531	CP	%	98			70-130	Pass	
Benzo(g.h.i)perylene	S13-My23531	CP	%	105			70-130	Pass	
Chrysene	S13-My23531	CP	%	108			70-130	Pass	
Dibenz(a.h)anthracene	S13-My23531	CP	%	101			70-130	Pass	
Fluoranthene	S13-My23531	CP	%	112			70-130	Pass	
Fluorene	S13-My23531	CP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My23531	CP	%	102			70-130	Pass	
Naphthalene	S13-My23531	CP	%	106			70-130	Pass	
Phenanthrene	S13-My23531	CP	%	105			70-130	Pass	
Pyrene	S13-My23531	CP	%	111			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My23531	CP	%	79			70-130	Pass	
Cadmium	S13-My23531	CP	%	98			70-130	Pass	
Chromium	S13-My23531	CP	%	88			70-130	Pass	
Copper	S13-My23531	CP	%	124			70-130	Pass	
Lead	S13-My23531	CP	%	99			70-130	Pass	
Mercury	S13-My23531	CP	%	112			70-130	Pass	
Nickel	S13-My23531	CP	%	93			70-130	Pass	
Zinc	S13-My23531	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	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My23531	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My23531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My23531	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My23531	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My23531	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My23531	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My23531	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My23531	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My23531	CP	mg/kg	3.6	< 2	67	30%	Fail	
Cadmium	S13-My23531	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S13-My23531	CP	mg/kg	8.9	9.2	4.0	30%	Pass	
Copper	S13-My23531	CP	mg/kg	23	37	46	30%	Fail	
Lead	S13-My23531	CP	mg/kg	9.5	9.6	1.0	30%	Pass	
Mercury	S13-My23531	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S13-My23531	CP	mg/kg	9.0	9.3	3.0	30%	Pass	
Zinc	S13-My23531	CP	mg/kg	34	37	10	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.

Authorised By

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

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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.

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

Attention: **Matthew Locke**

Report **380677-W**
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 28, 2013

Client Sample ID			**RB2**
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My23541**
Date Sampled			**May 28, 2013**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	95
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *			
Naphthalene[N02]	0.02	mg/L	< 0.02
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b)fluoranthene	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001

Client Sample ID			RB2
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S13-My23541**
Date Sampled			**May 28, 2013**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH	0.002	mg/L	< 0.001
p-Terphenyl-d14 (surr.)	1	%	70
2-Fluorobiphenyl (surr.)	1	%	70
Heavy Metals			
Arsenic (filtered)	0.001	mg/L	< 0.001
Cadmium (filtered)	0.0001	mg/L	< 0.0001
Chromium (filtered)	0.001	mg/L	< 0.001
Copper (filtered)	0.001	mg/L	0.003
Lead (filtered)	0.001	mg/L	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001
Nickel (filtered)	0.001	mg/L	< 0.001
Zinc (filtered)	0.005	mg/L	0.039

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 31, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 31, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 31, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 29, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8 filtered	Sydney	May 29, 2013	28 Day
- Method: E020/E030 Filtered Metals in Water & E026 Mercury			

eurofins | mgt

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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**						
BH201_0.5-0.6	May 27, 2013		Soil	S13-My23531	X	X		X		X
BH201_0.9-1.0	May 27, 2013		Soil	S13-My23532	X			X		X
BH201_0.9-1.0A	May 27, 2013		Soil	S13-My23533	X			X		X
BH201_1.9-2.0	May 27, 2013		Soil	S13-My23534	X			X		X
BH201_2.5-2.6	May 27, 2013		Soil	S13-My23535			X			
BH201A_0.5-0.6	May 28, 2013		Soil	S13-My23536	X	X		X		X
BH201A_0.9-1.0	May 28, 2013		Soil	S13-My23537			X			

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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Metals M8 filtered E020/E030 Filtered Metals in Water & E026 Mercury							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	97			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	84			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
o-Xylene	%	107			70-130	Pass	
Xylenes - Total	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	%	89			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	106			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	109			70-130	Pass	
Benz(a)anthracene	%	87			70-130	Pass	
Benzo(a)pyrene	%	91			70-130	Pass	
Benzo(g.h.i)perylene	%	88			70-130	Pass	
Chrysene	%	101			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	84			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	108			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Metals M8 filtered E020/E030 Filtered Metals in Water & E026 Mercury							
Arsenic (filtered)	%	105			70-130	Pass	
Cadmium (filtered)	%	109			70-130	Pass	
Chromium (filtered)	%	110			70-130	Pass	
Copper (filtered)	%	110			70-130	Pass	
Lead (filtered)	%	108			70-130	Pass	
Mercury (filtered)	%	112			70-130	Pass	
Nickel (filtered)	%	108			70-130	Pass	
Zinc (filtered)	%	109			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	S13-My23926	NCP	%	97			70-130	Pass	
TRH C10-C14	S13-My22820	NCP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My23926	NCP	%	105			70-130	Pass	
Toluene	S13-My23926	NCP	%	102			70-130	Pass	
Ethylbenzene	S13-My23926	NCP	%	104			70-130	Pass	
m&p-Xylenes	S13-My23926	NCP	%	102			70-130	Pass	
o-Xylene	S13-My23926	NCP	%	106			70-130	Pass	
Xylenes - Total	S13-My23926	NCP	%	104			70-130	Pass	

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	S13-My23926	NCP	%	104			70-130	Pass	
TRH C6-C10	S13-My23926	NCP	%	107			70-130	Pass	
TRH >C10-C16	S13-My22820	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My22823	NCP	%	100			70-130	Pass	
Acenaphthylene	S13-My22823	NCP	%	91			70-130	Pass	
Anthracene	S13-My22823	NCP	%	103			70-130	Pass	
Benz(a)anthracene	S13-My22823	NCP	%	87			70-130	Pass	
Benzo(a)pyrene	S13-My22823	NCP	%	97			70-130	Pass	
Benzo(g.h.i)perylene	S13-My22823	NCP	%	87			70-130	Pass	
Chrysene	S13-My22823	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S13-My22823	NCP	%	86			70-130	Pass	
Fluoranthene	S13-My22823	NCP	%	100			70-130	Pass	
Fluorene	S13-My22823	NCP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My22823	NCP	%	84			70-130	Pass	
Naphthalene	S13-My22823	NCP	%	101			70-130	Pass	
Phenanthrene	S13-My22823	NCP	%	101			70-130	Pass	
Pyrene	S13-My22823	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Metals M8 filtered				Result 1					
Arsenic (filtered)	S13-My23912	NCP	%	121			70-130	Pass	
Cadmium (filtered)	S13-My23912	NCP	%	109			70-130	Pass	
Chromium (filtered)	S13-My23912	NCP	%	119			70-130	Pass	
Copper (filtered)	S13-My23912	NCP	%	113			70-130	Pass	
Lead (filtered)	S13-My23912	NCP	%	113			70-130	Pass	
Mercury (filtered)	S13-My23541	CP	%	89			70-130	Pass	
Nickel (filtered)	S13-My23912	NCP	%	110			70-130	Pass	
Zinc (filtered)	S13-My23912	NCP	%	114			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	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S13-My22819	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S13-My23925	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S13-My23925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S13-My23925	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My23925	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S13-My22819	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S13-My22819	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-My22822	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Metals M8 filtered				Result 1	Result 2	RPD			
Arsenic (filtered)	S13-My23903	NCP	mg/L	0.0053	0.0052	2.0	30%	Pass	
Cadmium (filtered)	S13-My23903	NCP	mg/L	0.00010	0.00011	10	30%	Pass	
Chromium (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S13-My23903	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S13-My23541	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S13-My23903	NCP	mg/L	0.0040	0.0040	2.0	30%	Pass	
Zinc (filtered)	S13-My23903	NCP	mg/L	0.0070	0.0067	4.0	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.

Authorised By

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

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

Melbourne
3-5 Kingston Town Close
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380677
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 28, 2013 3:00 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Metals M8 filtered	Eurofins | mgt Suite 4
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				
BH201A_1.5-1.6	May 28, 2013		Soil	S13-My23538	X			X		X
BH201A_1.5-1.6A	May 28, 2013		Soil	S13-My23539	X			X		X
BH201A_1.9	May 28, 2013		Soil	S13-My23540			X			
RB2	May 28, 2013		Water	S13-My23541					X	X
BH209_0.2-0.3	May 28, 2013		Soil	S13-My23542	X	X		X		X

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET33493/ 36673 / 1 - 3
Your ref : 380677
NATA Accreditation No: 14484

3 June 2013

Eurofins | mgt
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 three samples, forwarded by Eurofins | mgt on 30 May 2013, for analysis for asbestos.

1.Introduction: Three 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. ASET33493 / 36673 / 1. BH201 - 0.5 - 0.6 - My23531.
Approx dimensions 8.6 cm x 7.5 cm x 7.4 cm
The sample consisted of a mixture of soil, stones and plant matter.
No asbestos detected.

Sample No. 2. ASET33493 / 36673 / 2. BH201A - 0.5 - 0.6 - My23536.
Approx dimensions 7.5 cm x 6.6 cm x 6.4 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Sample No. 3. ASET33493 / 36673 / 3. BH209 - 0.2 - 0.3 - My23542.
Approx dimensions 7.4 cm x 6.8 cm x 6.6 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Analysed and reported by,

Laxman Dias. BSc
Analyst / Approved Identifier
Approved Signatory

NATA
WORLD RECOGNISED ACCREDITATION

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

#380839

From: Delfa Sarabia [mailto:Ma.Sarabia@coffey.com]
Sent: Thursday, 30 May 2013 10:25 AM
To: Enviro Syd; Enquiries Syd
Subject: RE: additional testing - ICC Hotel

Further to my email below, I just need normal turn around for the results which I understand 5 to 7 working days.

Regards

Delfa Sarabia
Senior Geotechnical Engineer

t: +61 2 9406 1064
f: +61 2 9406 1002
m: +61 412 135 979

From: Delfa Sarabia
Sent: Thursday, 30 May 2013 10:23 AM
To: 'enviro.syd@mgtlabmark.com.au'; 'Enquiries.Syd@mgtlabmark.com.au'
Subject: additional testing - ICC Hotel

Dear MGT,

Can you please include additional test to the samples that we sent for ICC hotel. I have attached the testing schedule which basically indicates 3 pH, sulfate and chloride testing.

Should you have any questions please contact us.

Regards

Delfa Sarabia
Senior Geotechnical Engineer

Level 19, Tower B Citadel Tower
799 Pacific Highway
Chatswood, NSW 2067 Australia

t: +61 2 9406 1064
f: +61 2 9406 1002
m: +61 412 135 979

coffey

380839 30 May 2013 1025.

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference: various

Sample Ref	Containter Type	Analysis Requested				
		pH, sulfate, chloride				
BH201A 0.9-1.0	Jar	x				
BH206 1.1-1.4	Jar	x				
BH203 0.5-0.6	Jar	x				

eurofins | mgt

ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Delfa Sarabia
Client job number:	ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	May 30, 2013 10:25 AM
Eurofins | mgt reference:	**380839**

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 Eurofins | mgt Sample Receipt : 4 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

Additional analysis request from reports 380677, 380524 and 380366

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 Delfa Sarabia - delfa_sarabia@coffey.com.

Eurofins | mgt Sample Receipt

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.

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

Attention: **Delfa Sarabia**

Report **380839-S**
Client Reference ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 30, 2013

Client Sample ID			**BH201A 0.9-1.0**	**BH206 1.1-1.4**	**BH203 0.5-0.6**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-My24797**	**S13-My24798**	**S13-My24799**
Date Sampled			**May 27, 2013**	**May 27, 2013**	**May 27, 2013**
Test/Reference	LOR	Unit			
Chloride	10	mg/kg	< 10	< 10	< 10
pH (1:5 Aqueous extract)	0.1	units	9.5	8.9	8.5
Sulphate (as S)	10	mg/kg	22	< 10	< 10
% Moisture	0.1	%	9.5	7.1	5.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Chloride	Sydney	May 31, 2013	28 Day
- Method: E033 /E045 /E047 Chloride			
pH (1:5 Aqueous extract)	Sydney	Jun 04, 2013	7 Day
- Method: E018 pH			
Sulphate (as S)	Sydney	May 31, 2013	28 Day
- Method: E045 Sulphate			
% Moisture	Sydney	May 30, 2013	28 Day
- Method: E005 Moisture Content			

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ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au web : www.mgtlabmark.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	May 30, 2013 10:25 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	380839 +61 2 9406 1000 +61 2 9406 1002	**Due:** **Priority:** **Contact Name:**	Jun 6, 2013 5 Day Delfa Sarabia
Client Job No.:	ADDITIONAL: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Chloride	pH (1:5 Aqueous extract)	Sulphate (as S)
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								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
BH201A 0.9-1.0	May 27, 2013		Soil	S13-My24797	X	X	X	X
BH206 1.1-1.4	May 27, 2013		Soil	S13-My24798	X	X	X	X
BH203 0.5-0.6	May 27, 2013		Soil	S13-My24799	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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							
Chloride	mg/kg	< 10			10	Pass	
Sulphate (as S)	mg/kg	< 10			10	Pass	
LCS - % Recovery							
Chloride	%	111			70-130	Pass	
Sulphate (as S)	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Chloride	S13-My22826	NCP	%	111			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Chloride	S13-My22826	NCP	mg/kg	330	330	<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	No

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (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

#386699

From: Jean Heng
Sent: Monday, 22 July 2013 3:45 PM
To: EnviroSampleNSW

Please log in on 5days TAT.

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Monday, July 22, 2013 3:20 PM
To: Jean Heng
Subject: Chromium Reducible Sulfur

Jean,

Further to our discussion, we would like to commission further analysis of the following samples held under reference 382020-S:

- BH204A(3.9)
- BH204A(2.8-2.9)

Can you please let me know whether these samples are still within holding time to enable us to undertake Chromium Reducible Sulfur analysis?

Thanks and regards,

Matt

Matthew Locke BEng (Hons) MIEMA CEnv
Senior Associate Environmental Engineer

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

t: (+61) (2) 9406 1000
f: (+61) (2) 9406 1002
m: (+61) (0) 427 202 493

coffey

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 107468

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood
Report Results to: Matthew Locke — Mobile: — Email: Matthew.locke @coffey.com
Invoices to: Matthew Locke — Phone: — Email: Matthew.locke @coffey.com

Project No: GEOTLCOV24303AH — Task No:
Project Name: Hotel Development site, Darling Harbour — Laboratory: Eurofins MGT
Sampler's Name: PD — Project Manager: Matthew Locke
Special Instructions: (*) Only test PAH Ultratrace & sample to be filtered in lab using glass fibre filter. Check with Bob Symons if uncertain.

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	ASS Screening	BTEX/TPH/PAH	PAH Ultratrace	(*) PAH Ultratrace - Filter glass fibre	Metals (8)	BTEX & TPH C6-C9	NOTES
	BH204A_2.8-2.9_ASS1	7/6/13		Soil		Standard	✓						
	BH204A_3.8_ASS2	↓		↓		↓	✓						
	BH204A_3.9_ASS3						✓						
	BH204A_4.0-4.1_ASS4						✓						
	BH203			Water				✓	✓		✓		
	BH203_F									✓			
	BH204							✓	✓		✓		
	BH204_F									✓			
	BH205							✓	✓		✓		
	BH205_F									✓			
	DUP1							✓	✓		✓		
	RB							✓			✓		
	TB										✓		
	TS	↓		↓							✓		

RELINQUISHED BY

Name: Priya Dass — Date: 7/6/13
Coffey Environments — Time: 7.00 p.m.
Name: — Date:
Company: — Time:

RECEIVED BY

Name: Daniel Thompson — Date: 7/6/13
Company: Eurofins MGT — Time: 7pm
Name: — Date:
Company: — Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 382020

*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

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	Not provided
Turn around time:	7 Day
Date/Time received:	Jul 22, 2013 3:45 PM
Eurofins | mgt reference:	**386699**

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 Eurofins | mgt Sample Receipt : 4 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

Additinal from #382020

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

eurofins | mgt

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.

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

Attention: **Matthew Locke**

Report **386699-S**
Client Reference ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
Received Date Jul 22, 2013

Client Sample ID			**BH204A_3.9-ASS3**	**BH204A_2.8-2.9_ASS1**
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-Jl15692**	**S13-Jl15693**
Date Sampled			**Jun 07, 2013**	**Jun 07, 2013**
Test/Reference	LOR	Unit		
Acid Base Accounting (Chromium Reducible Sulfur)				
ANC Fineness Factor	0.5	units	1.5	1.5
Liming rate - CRS[T01]	1	kg CaCO3/t	< 1	14
Net Acidity (acidity units) - CRS	10	mol H+/t	< 10	190
Net Acidity (sulfur units) - CRS	0.02	% S	< 0.02	0.3
Chromium Suite				
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	< 2
Chromium Reducible Sulfur	0.02	% S	0.26	0.30
pH-KCL	0.1	units	9.7	5.6
sulfidic - Titratable Actual Acidity	0.02	% pyrite S	< 0.02	< 0.02
% Moisture	0.1	%	19	20

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Base Accounting (Chromium Reducible Sulfur)	Melbourne	Jul 25, 2013	
Chromium Suite	Melbourne	Jul 25, 2013	6 Weeks
- Method: Acid Sulphate Soils Laboratory Methods Guidelines, Version 2.1			
% Moisture	Melbourne	Jul 24, 2013	14 Day
- Method: Method 102 - ANZECC - % Moisture			

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jul 22, 2013 3:45 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	386699	**Due:**	Jul 29, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke

Client Job No.: ADDITIONAL:HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Chromium Suite
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
BH204A_3.9-ASS3	Jun 07, 2013		Soil	S13-Jl15692	X	X
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jl15693	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

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	No

Qualifier Codes/Comments

Code	Description
T01	Includes 1.5 Safety Factor

Authorised By

Jean Heng	Client Services
Glenn Jackson	Senior Analyst-SPOCAS (VIC)

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

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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	107468
Turn around time:	5 Day
Date/Time received:	Jun 7, 2013 7:00 PM
Eurofins | mgt reference:	**382020**

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 Eurofins | mgt Sample Receipt : 4 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.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Extra sample received DUP1_F analysis as Ultra Trace PAH through glass fibre filter unless otherwise stated

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jn05878			X			
BH204A_3.8_ASS2	Jun 07, 2013		Soil	S13-Jn05879			X			
BH204A_3.9_ASS3	Jun 07, 2013		Soil	S13-Jn05880			X			
BH204A_4.0-4.1_ASS4	Jun 07, 2013		Soil	S13-Jn05881			X			
BH203	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05882		X		X	X	X
BH203_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05883		X				

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NATA # 1261 Site # 20794

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**	
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	382020 +61 2 9406 1000 +61 2 9406 1002
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH		

Received:	Jun 7, 2013 7:00 PM
Due:	Jun 18, 2013
Priority:	5 Day
Contact Name:	Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
BH204	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05884		X		X	X	X
BH204_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05885		X				
BH205	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05886		X		X	X	X
BH205_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05887		X				
DUP1	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05888		X		X	X	X
RB	Jun 07, 2013		Water	S13-Jn05889		X		X	X	X
TB	Jun 06, 2013		Water	S13-Jn05890	X				X	
TS	Jun 06, 2013		Water	S13-Jn05891	X				X	

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
DUP_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05892		X				

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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.

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

Attention: **Matthew Locke**

Report **382020-S**
Client Reference HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
Received Date Jun 07, 2013

Client Sample ID			**BH204A_2.8-2.9_ASS1**	**BH204A_3.8_ASS2**	**BH204A_3.9_ASS3**	**BH204A_4.0-4.1_ASS4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-Jn05878**	**S13-Jn05879**	**S13-Jn05880**	**S13-Jn05881**
Date Sampled			**Jun 07, 2013**	**Jun 07, 2013**	**Jun 07, 2013**	**Jun 07, 2013**
Test/Reference	LOR	Unit				
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	7.2	6.7	7.3	7.5
pH-FOX (Field pH Peroxide test)	0.1	units	2.2	2.0	2.6	5.5
Reaction Ratings		comment	Low	Low	Volcanic	High

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Acid Sulphate Soils Field pH Test	Sydney	Jun 13, 2013	7 Day
- Method: Acid Sulphate Soils Guideline Series			

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020	**Due:**	Jun 18, 2013
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
BH204A_2.8-2.9_ASS1	Jun 07, 2013		Soil	S13-Jn05878			X			
BH204A_3.8_ASS2	Jun 07, 2013		Soil	S13-Jn05879			X			
BH204A_3.9_ASS3	Jun 07, 2013		Soil	S13-Jn05880			X			
BH204A_4.0-4.1_ASS4	Jun 07, 2013		Soil	S13-Jn05881			X			
BH203	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05882		X		X	X	X
BH203_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05883		X				

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**	
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	382020
		Phone:	+61 2 9406 1000
		Fax:	+61 2 9406 1002
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH		

Received:	Jun 7, 2013 7:00 PM
Due:	Jun 18, 2013
Priority:	5 Day
Contact Name:	Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
BH204	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05884		X		X	X	X
BH204_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05885		X				
BH205	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05886		X		X	X	X
BH205_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05887		X				
DUP1	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05888		X		X	X	X
RB	Jun 07, 2013		Water	S13-Jn05889		X		X	X	X
TB	Jun 06, 2013		Water	S13-Jn05890	X				X	
TS	Jun 06, 2013		Water	S13-Jn05891	X				X	

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Jun 7, 2013 7:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:** **Phone:** **Fax:**	382020 +61 2 9406 1000 +61 2 9406 1002	**Due:** **Priority:** **Contact Name:**	Jun 18, 2013 5 Day Matthew Locke
Client Job No.:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Acid Sulphate Soils Field pH Test	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
DUP_F	Jun 07, 2013		Water (Ultra-trace)	S13-Jn05892		X				

Eurofins | mgt Internal Quality Control Review and Glossary

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

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

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 performed on samples not pertaining to this report, 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.
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.
4. 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.

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	No

Authorised By

Jean Heng Client Services

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 107468

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Consigning Office: Chatswood
Report Results to: Matthew Locke — Mobile: — Email: Matthew.locke @coffey.com
Invoices to: Matthew Locke — Phone: — Email: Matthew.locke @coffey.com

Project No: GEOTLCOV24303AH — Task No:
Project Name: Hotel Development site, Darling Harbour — Laboratory: Eurofins MGT
Sampler's Name: PD — Project Manager: Matthew Locke
Special Instructions: (*) Only test PAH Ultratrace & sample to be filtered in lab using glass fibre filter. Check with Bob Symons if uncertain.

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	ASS Screening	BTEX/TPH/PAH	PAH Ultratrace	(*) PAH Ultratrace - Filter glass fibre	Metals (8)	BTEX & TPH C6-C9	NOTES
	BH204A_2.8-2.9_ASS1	7/6/13		Soil		Standard	✓						
	BH204A_3.8_ASS2	↓		↓		↓	✓						
	BH204A_3.9_ASS3						✓						
	BH204A_4.0-4.1_ASS4						✓						
	BH203			Water				✓	✓		✓		
	BH203_F									✓			
	BH204							✓	✓		✓		
	BH204_F									✓			
	BH205							✓	✓		✓		
	BH205_F									✓			
	DUP1							✓	✓		✓		
	RB							✓			✓		
	TB										✓		
	TS	↓		↓							✓		

RELINQUISHED BY

Name: Priya Dass — Date: 7/6/13
Coffey Environments — Time: 7.00 p.m.
Name: — Date:
Company: — Time:

RECEIVED BY

Name: Daniel Thompson — Date: 7/6/13
Company: Eurofins MGT — Time: 7pm
Name: — Date:
Company: — Time:

Sample Receipt Advice: (Lab Use Only)

All Samples Recieved in Good Condition ☑
All Documentation is in Proper Order ☑
Samples Received Properly Chilled ☑
Lab. Ref/Batch No. 382020

*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

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Matthew Locke
Client job number:	HOTEL DEVELPOMENT SITE DARLING HARBOUR GEOTLCOV02303AH
COC number:	107468
Turn around time:	5 Day
Date/Time received:	Jun 7, 2013 7:00 PM
Eurofins | mgt reference:	**382020**

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 Eurofins | mgt Sample Receipt : 4 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.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Extra sample received DUP1_F analysis as Ultra Trace PAH through glass fibre filter unless otherwise stated

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: JeanHeng@eurofins.com.au

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

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.