

Engineering Log - Borehole

Energy Taylor Thomson Whitting

Principal: *Conley Projects*

PROJECT: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Booth Location	Building 1
Booth 1	Booth 1
Booth 2	Booth 2
Booth 3	Booth 3
Booth 4	Booth 4
Booth 5	Booth 5
Booth 6	Booth 6
Booth 7	Booth 7
Booth 8	Booth 8
Booth 9	Booth 9
Booth 10	Booth 10
Booth 11	Booth 11
Booth 12	Booth 12
Booth 13	Booth 13
Booth 14	Booth 14
Booth 15	Booth 15
Booth 16	Booth 16
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Booth 19	Booth 19
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Booth 45	Booth 45
Booth 46	Booth 46
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Booth 50	Booth 50
Booth 51	Booth 51
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Booth 89	Booth 89
Booth 90	Booth 90
Booth 91	Booth 91
Booth 92	Booth 92
Booth 93	Booth 93
Booth 94	Booth 94
Booth 95	Booth 95
Booth 96	Booth 96
Booth 97	Booth 97
Booth 98	Booth 98
Booth 99	Booth 99
Booth 100	Booth 100

Govt. No. CB/15

Page 1 of 2

Page 66, No: GFOTLCOV23462AA

Date: 8/2/09 12.3.2009

Date completed: 12/3/2008

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Checked by **SK**

Engineering Log - Cored Borchole

LIEN: Taylor Thomson Whiting

Financial Coffee Projects

185 FOX VALLEY ROAD, SAN HOSPITAL, WEHROONGA

Benchmarks Location. *Building 1*

Sheet 2 of 2

Project No: GEOT1 COV93462AA

One signed 12.3.2008

Date completed: 12.3.2008

Checked by: SA




















Weighting	
W1	least
S1	slightly more than
M1	moderately more than
M2	strongly more than
M3	extremely more than
M4	distinctly more than
M5	extremely more than
Strength	
L1	very low
L2	low
L3	medium
L4	high
L5	very high

effect type	
17	17 M
PE	peeling
EU	crack
SE	shear failure
SG	shear surface
CS	concrete failure
planarity	
AL	plane
LI	linear
DI	distorting
DE	deformed

FEEDBACK
 AFI 44-1104/4
 RC 44-1104
 VFI 44-1104
 SL 44-1104-1

READING
 EN 44-1104
 SE 44-1104
 VFI 44-1104
 SL 44-1104

Engineering Log - Borehole

Client:	Taylor Thomson Whitting
Principal:	Coffey Projects
Project:	185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA
Geometric Location:	Building 3

[illegible]

Engineering Log - Cored Borehole

Client: Taylor Thomson Whitting

Principal Coffee Projects

Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Buena Vista Location. Building 3

Borehole No. CBN7

Sheet 3 of 3

Project No: GEOTLCOV23462AA

Date started: 12.3.2008

Date completed: 13.3.2008

Approved by J.A.

Checked by SH

Borehole Location: Drilling 3			Date: 12/07/21		Sheet: 20		R. Surface: 157.716	
Borehole ID: 157731			Depth: 4065500		Bearing: 4065500		Area: 4065500	
Drilling Information			Material Substrate			Rock Mass Defects		
Depth (m)	Core Recovery (%)	Material Description	Core Recovery (%)	Material Description	Core Recovery (%)	Material Description	Core Recovery (%)	Material Description
140	0	140	0	140	0	140	0	140
145	10	145	10	145	10	145	10	145
150	11	150	11	150	11	150	11	150
155	12	155	12	155	12	155	12	155
160	13	160	13	160	13	160	13	160
165	14	165	14	165	14	165	14	165
170	15	170	15	170	15	170	15	170
175	16	175	16	175	16	175	16	175
180	17	180	17	180	17	180	17	180

Engineering Log - Cored Borehole

Client Taylor Thomson Whitting

Planning *Concise Projects*

Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Revised Location	Building #
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5/10/2021 2 of 2

File No: **GEOTLCOV23452AA**

File Name: 13.3.2008

Date completed 13.3.2008

Language by **JA**

Copyright by SH

Engineering Log - Cored Borehole

Client Taylor Thomson Whitting

Principal	Company Projects
1. Mr. A. B. Smith	1. Construction of a new office building in New York City.
2. Mr. J. K. Jones	2. Development of a new software application for data management.
3. Mr. L. M. Brown	3. Implementation of a new marketing strategy for a national brand.
4. Mr. N. O. White	4. Expansion of manufacturing facilities in the Midwest.
5. Mr. P. Q. Green	5. Research and development of a new medical device.
6. Mr. R. S. Black	6. Launch of a new line of consumer electronics.
7. Mr. T. U. Grey	7. Acquisition of a new company in the technology sector.
8. Mr. V. W. Blue	8. Rebranding and restructuring of an existing business.
9. Mr. X. Y. Red	9. Development of a new financial services platform.
10. Mr. Z. A. Purple	10. Construction of a new retail store in a high-traffic area.

Project: 185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA

Barcode Location: **Building 2**

Booth No. CBH9

Sheet 2 of 2

Project No. **GFOT/COV23462AA**

Date started 13.3.2008

Date completed: 13.3.2008

Loaded by JA

Checked by **SH**

drilling information				material substance				rock mass defects			
method	core diam	water	depth (meters)	material	weathering	calculated strength	log RQD	drilled section mm	defect description	depth	
				rock type, grain characteristics, color, luster, etc. (note any mineral components)	scale	MPa	log RQD	mm	type, location, frequency, roughness, scaling, etc.	mm	
SD	100		1.50	1	DAKOTA STONE - Medium grained, pale gray orange-brown color, luster is distinctly lustrous at 2" depth, partially obscured by sandstone	SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.55	2		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.60	3		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.65	4	DAKOTA STONE - Medium grained, pale gray orange-brown color, luster is distinctly lustrous at 2" depth, partially obscured by sandstone	SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.70	5		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.75	6		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.80	7		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		
SD	100		1.85	8		SW	0.30 0.30 0 A 0.45 0.60	100	PT 1, PL 50, CO		

Engineering Log - Borehole

Client:	Taylor Thomson Whitting
Filing jurisdiction:	Colley Projects
Project:	185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA
Base rate location:	Building 2

Barcode No	CBH10
Sheet	1 of 2
Project No:	GEOTLCOV23462AA
Date started	14.3.2008
Date completed	14.3.2008
Entered by	JA
Checked by	SH

Engineering Log - Borehole

Client	Taylor Thomson Whitting
Product	Coffee Projects
Project	185 FOX VALLY ROAD, SAN HOSPITAL, WAHRROONGA
Barcode Location	Building 1

Recehale Shi	CBH11
Sheet	1 of 2
Projec No	GEOTLCOV23462AA
Onle started	14.3.2008
Date completed	14.3.2008
Logged by:	JA
Checked by	SH

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Engineering Log - Cored Borehole

Client: Taylor Thomson Whitting

Principal: Coffey Projects

Project: 185 FOX VALLEY ROAD, SAN HOSPITAL, WAHGOONGA

Borehole Location: Building 1

Borehole No: CBH11

Sheet: 2 of 2

Project No: GFNT1 COV23462AA

Log started: 14.3.2008

Date completed: 14.3.2008

Logged by: JA

Checked by: SH

Borehole Information				Geotechnical Data			
Borehole ID: B11				Depth: 10.0m	Location: Building 1	Scale: 1:100	Notes: N/A
Drilling Information		Material Substance		Rock mass defects			
Method	Depth (m)	Material	Remarks	Defect Type	Defect Description	Defect Location	Defect Depth (m)
RC	1.0	Reddish-brown silty sandstone, medium to coarse grained.					
RC	1.5						
RC	2.0						
RC	2.5						
RC	3.0						
RC	3.5						
RC	4.0						
RC	4.5						
RC	5.0						
RC	5.5						
RC	6.0						
RC	6.5						
RC	7.0						
RC	7.5						
RC	8.0						
RC	8.5						
RC	9.0						
RC	9.5						
RC	10.0						

COFFEY PROJECTS 412/11 COV23462AA 10/11/2008 10:15

Engineering Log - Borehole

Start *Jaylor Thomson Whiting*

Franchise	Coffee Projects
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PIRELL 186 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Receivable 100,000, Building 2

Brandcode No: CBH12

Steel 10' 2"

Project No: **GEOTLCOV23462AA**

Date started 17.3.2008

Printed on 17.3.2008

Logged by: JA

Closed by SH

Engineering Log - Borehole

Client	Taylor Thomson Whiting
Principal	Coffee Projects
Address	185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA
Barcode Location	Building 2

Booth/No:	CBH13
Sheet:	1 of 2
Project No	GEOTLCOV23462A4
Date started:	10.3.2008
Date completed:	16.3.2008
Issued by:	JA
Checked by:	SH

[illegible]

Engineering Log - Cored Borehole

Client: Taylor Thomson Whitting

Purpose	Coffee Projects
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185 FOX VALLY ROAD, SAN HOSPITAL, WAHKOONGA.

Geometric Number: **Building 2**

Boards No **CA#113**

Shen 2 of 2

Message No: **GFOTLCOV23462AA**

Qte startat: 18.3.2008

Date completed 18.3.2008

Locality JA

Checked by **SH**

Engineering Log - Borehole

Chem Taylor Thomson Whiting

Principal	Coffey Projects
James J. Coffey	1980-1985
James J. Coffey	1985-1990
James J. Coffey	1990-1995
James J. Coffey	1995-2000
James J. Coffey	2000-2005
James J. Coffey	2005-2010
James J. Coffey	2010-2015
James J. Coffey	2015-2020
James J. Coffey	2020-2025
James J. Coffey	2025-2030
James J. Coffey	2030-2035
James J. Coffey	2035-2040
James J. Coffey	2040-2045
James J. Coffey	2045-2050
James J. Coffey	2050-2055
James J. Coffey	2055-2060
James J. Coffey	2060-2065
James J. Coffey	2065-2070
James J. Coffey	2070-2075
James J. Coffey	2075-2080
James J. Coffey	2080-2085
James J. Coffey	2085-2090
James J. Coffey	2090-2095
James J. Coffey	2095-2100

Projezi: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Baroness Leighton Building 2

Runoff No. **CBH14**

Sheet 1 of 2

Typed Name: **GEOJLCOV23462AA**

Ulag started 18.3.2008

Date completed: 10.3.2008

Logged by JA

Cracked by: SH

[illegible]

Engineering Log - Cored Borehole

Clery: Taylor Thompson Whiting

Principal: Colley Projects

Plotter: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

George's Location: Building 2

Q3940 No CBHfd

Sheet 2 of 7

Project No: **GEO71 C0V23462AA**

Date stamp: 10.3.2006

Date completed: 18.3.2008

Loose by: *JA*

Checked by SH

Engineering Log - Cored Borehole

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Approval	Culley Projects
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Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Firefighting Division Building 1

Seatchole No. CBH15

Steel 2 D1 2

Project No: **GEOTLCOV23462AA**

Date started: 18.3.2008

Date completed 15.3.2008

Approved by: *JA*

Checked by: SH

Engineering Log - Cored Borehole

Client: Taylor Thomson Whitting
Principal: Coffey Projects
Project: 105 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA
Borehole Location: Building 3

Borehole No: CBH16
Sheet: 3 of 3
Project No: GFDTLCOV23462AA
Date signed: 19.3.2008
Date completed: 19.3.2008
Logged by: JA
Checked by: SH

Refining information		Facing	320-040	Depth	100'	Rel. S. value	161.107
Information		Refining	00000007	Logging		Chart	AND
Drilling information		Material substance					
Rel. S. value	Depth (meters)	Material	Weathering at depth	Estimated strength	log % Dispersed Area %	Defect spacing (mm)	Defect description
153	153	SANDSTONE. Medium grained, pale grey and greenish grey, for 100' to 120'	Md	10-15	10-15	10-15	PT, 20, PL, SD, CO SL, 10, PL, SD, CO, sand with some clay 10-15 PT, 20, PL, SD, CO PT, 20, PL, SD, CO PT, 20, PL, SD, CO
154	154	CLAY SAND. Low plasticity, pale grey with some thin sandstone	CLAY	10-15	10-15	10-15	PT, 20, PL, SD, CO SL, 10, PL, SD, CO, sand with some clay 10-15 PT, 20, PL, SD, CO PT, 20, PL, SD, CO PT, 20, PL, SD, CO
155	155	SANDSTONE. Medium grained, pale greenish grey	CLAY	10-15	10-15	10-15	PT, 20, PL, SD, CO SL, 10, PL, SD, CO, sand with some clay 10-15 PT, 20, PL, SD, CO PT, 20, PL, SD, CO PT, 20, PL, SD, CO
156	156	SANDSTONE. Fine grained, pale grey with brown mottling. 100' to 120' to 150'	CLAY	10-15	10-15	10-15	PT, 20, PL, SD, CO SL, 10, PL, SD, CO, sand with some clay 10-15 PT, 20, PL, SD, CO PT, 20, PL, SD, CO PT, 20, PL, SD, CO
157	157	SANDSTONE. Medium grained, pale greenish grey	CLAY	10-15	10-15	10-15	PT, 20, PL, SD, CO SL, 10, PL, SD, CO, sand with some clay 10-15 PT, 20, PL, SD, CO PT, 20, PL, SD, CO PT, 20, PL, SD, CO
158	158	Coring terminated at 126.6m					
159	159						
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105 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA, COFFEY 007 10 108

105 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA, COFFEY 007 10 108

Engineering Log - Borehole

Client	Taylor Thomson Whitting
Principal	Coffey Projects
Project	185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA
Reference Location	Building 2

Workfile No.	CBH17
Sheet	1 of 2
Project No.	GEOTLCOV23462AA
Date started	19.3.2008
Date completed	19.3.2008
Logged by.	JAMT
Checked by	SH

[illegible]

Engineering Log - Cored Borehole

Client:	Taylor Thomson Whitting
Principal:	Coffey Projects
Project:	185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA
Corehole Location:	Building 2

Barcode No.	CBH17
Sheet	2 of 2
Project No	GEOTLCOV23462AA
Date started.	19.3.2008
Date completed.	19.3.2008
Logged by	JAM/T
Checked by.	SH

[illegible]

Engineering Log - Borehole

Clerk.	Taylor Thomson Whitting
Patrolman	Coffey Projects
Project.	185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA
Barbark. Location	Building 3

Barcode No.	CBHT8
Sheet	1 of 3
Project No.	GEOTLCOV23462AA
Date started	19.3.2008
Date completed	20.3.2008
Logged by	MT
Checked by	SH

Engineering Log - Cored Borehole

Capt. Taylor Thompson Whitting

Project: 183 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA

Describe Location: *Building 3*

Booth's No. **CBH18**

Step 2 2 of 3

Page: 2 (N) **GEOTLCOV23462AA**

File started	19.3.2008
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Date converted: 20.3.2008

Luxated by JMT

Created by **SH**

Engineering Log - Cored Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA**
 Borehole location: **Building 3**

Borehole No.: **CBH18**
 Sheet: **2 of 3**
 Project No.: **GEOTLCOV23462AA**
 Date started: **19.3.2008**
 Date completed: **20.3.2008**
 Logged by: **MT**
 Checked by: **SH**

drilling information		material substance		rock mass details		drift description	
depth (m)	depth (ft)	depth (m)	depth (ft)	depth (m)	depth (ft)	depth (m)	depth (ft)
15.5	51	11.5	38	10	33	11	36
12	39	10	33	11	36	12	39
11.5	38	10	33	11	36	11.5	38
10	33	10	33	10	33	10	33
9	29	9	29	9	29	9	29
8	26	8	26	8	26	8	26
7	23	7	23	7	23	7	23
6	20	6	20	6	20	6	20
5	16	5	16	5	16	5	16
4	13	4	13	4	13	4	13
3	10	3	10	3	10	3	10
2	7	2	7	2	7	2	7
1	4	1	4	1	4	1	4
0	0	0	0	0	0	0	0

drift description

15.5 - 11.5: SANDSTONE: Fine to medium grained, slightly micaceous, locally bedded at 10'-20' (continued)

11.5 - 10: Bearing sandstone bedded at 10'-20'

10 - 9: CLAYSTONE: 5'-12' 16"

rock mass details

15.5 - 11.5: RQD 100%
 11.5 - 10: RQD 100%
 10 - 9: RQD 100%
 9 - 8: RQD 100%
 8 - 7: RQD 100%
 7 - 6: RQD 100%
 6 - 5: RQD 100%
 5 - 4: RQD 100%
 4 - 3: RQD 100%
 3 - 2: RQD 100%
 2 - 1: RQD 100%

water

15.5 - 11.5: No water flow
 11.5 - 10: No water flow
 10 - 9: No water flow
 9 - 8: No water flow
 8 - 7: No water flow
 7 - 6: No water flow
 6 - 5: No water flow
 5 - 4: No water flow
 4 - 3: No water flow
 3 - 2: No water flow
 2 - 1: No water flow

water pressure

15.5 - 11.5: No water pressure
 11.5 - 10: No water pressure
 10 - 9: No water pressure
 9 - 8: No water pressure
 8 - 7: No water pressure
 7 - 6: No water pressure
 6 - 5: No water pressure
 5 - 4: No water pressure
 4 - 3: No water pressure
 3 - 2: No water pressure
 2 - 1: No water pressure

drift description

15.5 - 11.5: CLAYSTONE: 5'-12' 16"

rock mass details

15.5 - 11.5: RQD 100%
 11.5 - 10: RQD 100%
 10 - 9: RQD 100%
 9 - 8: RQD 100%
 8 - 7: RQD 100%
 7 - 6: RQD 100%
 6 - 5: RQD 100%
 5 - 4: RQD 100%
 4 - 3: RQD 100%
 3 - 2: RQD 100%
 2 - 1: RQD 100%

water

15.5 - 11.5: No water flow
 11.5 - 10: No water flow
 10 - 9: No water flow
 9 - 8: No water flow
 8 - 7: No water flow
 7 - 6: No water flow
 6 - 5: No water flow
 5 - 4: No water flow
 4 - 3: No water flow
 3 - 2: No water flow
 2 - 1: No water flow

water pressure

15.5 - 11.5: No water pressure
 11.5 - 10: No water pressure
 10 - 9: No water pressure
 9 - 8: No water pressure
 8 - 7: No water pressure
 7 - 6: No water pressure
 6 - 5: No water pressure
 5 - 4: No water pressure
 4 - 3: No water pressure
 3 - 2: No water pressure
 2 - 1: No water pressure

CORED BOREHOLE GEOTECHNICAL LOG SHEET 20' 10' 25'

Form GEO 34 (Rev 3/04)

Engineering Log - Borehole

Client Taylor Thomson Whitting

Principal Coffee Projects

Placed: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHRDONGA

Birdchase Location	Building J
--------------------	------------

Bohrer-Holz AG **CAH20**

Sheet 1 of 1
Project No. GEOTLCOV23469AA

Qtd started 20.3.2008

Date completed: 20.3.2008

Logged by *PAT*

Checked by: SH

Borehole Location		Building		Easting		Northing		ELL Number		BSP 501	
Grid coordinates		100 m		100 m		100 m		100 m		100 m	
drilling information				material substance							
depth (m)	depth (ft)	water level (m)	water level (ft)	depth (m)	depth (ft)	material	material condition	depth (m)	depth (ft)	depth (m)	depth (ft)
0.0	0.0	0.0	0.0	0.0	0.0	soil type 1: silty clay with plasticity dark brown	comp	0.0	0.0	0.0	0.0
1.0	3.3	0.0	0.0	1.0	3.3	soil type 2: silty clay with plasticity dark brown	comp	1.0	3.3	1.0	3.3
2.0	6.6	0.0	0.0	2.0	6.6	soil type 3: silty clay with plasticity dark brown	comp	2.0	6.6	2.0	6.6
3.0	9.9	0.0	0.0	3.0	9.9	soil type 4: silty clay with plasticity dark brown	comp	3.0	9.9	3.0	9.9
4.0	13.2	0.0	0.0	4.0	13.2	soil type 5: silty clay with plasticity dark brown	comp	4.0	13.2	4.0	13.2
5.0	16.5	0.0	0.0	5.0	16.5	soil type 6: silty clay with plasticity dark brown	comp	5.0	16.5	5.0	16.5
6.0	19.8	0.0	0.0	6.0	19.8	soil type 7: silty clay with plasticity dark brown	comp	6.0	19.8	6.0	19.8
7.0	23.1	0.0	0.0	7.0	23.1	soil type 8: silty clay with plasticity dark brown	comp	7.0	23.1	7.0	23.1
8.0	26.4	0.0	0.0	8.0	26.4	soil type 9: silty clay with plasticity dark brown	comp	8.0	26.4	8.0	26.4
9.0	29.7	0.0	0.0	9.0	29.7	soil type 10: silty clay with plasticity dark brown	comp	9.0	29.7	9.0	29.7
10.0	33.0	0.0	0.0	10.0	33.0	soil type 11: silty clay with plasticity dark brown	comp	10.0	33.0	10.0	33.0
11.0	36.3	0.0	0.0	11.0	36.3	soil type 12: silty clay with plasticity dark brown	comp	11.0	36.3	11.0	36.3
12.0	39.6	0.0	0.0	12.0	39.6	soil type 13: silty clay with plasticity dark brown	comp	12.0	39.6	12.0	39.6
13.0	42.9	0.0	0.0	13.0	42.9	soil type 14: silty clay with plasticity dark brown	comp	13.0	42.9	13.0	42.9
14.0	46.2	0.0	0.0	14.0	46.2	soil type 15: silty clay with plasticity dark brown	comp	14.0	46.2	14.0	46.2
15.0	49.5	0.0	0.0	15.0	49.5	soil type 16: silty clay with plasticity dark brown	comp	15.0	49.5	15.0	49.5
16.0	52.8	0.0	0.0	16.0	52.8	soil type 17: silty clay with plasticity dark brown	comp	16.0	52.8	16.0	52.8
17.0	56.1	0.0	0.0	17.0	56.1	soil type 18: silty clay with plasticity dark brown	comp	17.0	56.1	17.0	56.1
18.0	59.4	0.0	0.0	18.0	59.4	soil type 19: silty clay with plasticity dark brown	comp	18.0	59.4	18.0	59.4
19.0	62.7	0.0	0.0	19.0	62.7	soil type 20: silty clay with plasticity dark brown	comp	19.0	62.7	19.0	62.7
20.0	66.0	0.0	0.0	20.0	66.0	soil type 21: silty clay with plasticity dark brown	comp	20.0	66.0	20.0	66.0
21.0	69.3	0.0	0.0	21.0	69.3	soil type 22: silty clay with plasticity dark brown	comp	21.0	69.3	21.0	69.3
22.0	72.6	0.0	0.0	22.0	72.6	soil type 23: silty clay with plasticity dark brown	comp	22.0	72.6	22.0	72.6
23.0	75.9	0.0	0.0	23.0	75.9	soil type 24: silty clay with plasticity dark brown	comp	23.0	75.9	23.0	75.9
24.0	79.2	0.0	0.0	24.0	79.2	soil type 25: silty clay with plasticity dark brown	comp	24.0	79.2	24.0	79.2
25.0	82.5	0.0	0.0	25.0	82.5	soil type 26: silty clay with plasticity dark brown	comp	25.0	82.5	25.0	82.5
26.0	85.8	0.0	0.0	26.0	85.8	soil type 27: silty clay with plasticity dark brown	comp	26.0	85.8	26.0	85.8
27.0	89.1	0.0	0.0	27.0	89.1	soil type 28: silty clay with plasticity dark brown	comp	27.0	89.1	27.0	89.1
28.0	92.4	0.0	0.0	28.0	92.4	soil type 29: silty clay with plasticity dark brown	comp	28.0	92.4	28.0</	

Engineering Log - Borehole

Client	Taylor Thomson Whitting
Principal	Coffey Projects
Project	185 FOX VALLY ROAD, SAN HOSPITAL, WAHHOONGA
Household Location	Building 3

Process No	CBH21
Sheet	1 of 1
Project No	GEOTLCOV23462AA
Date started	25.3.2008
Date completed	25.3.2008
Logged by	JA
Checked by	SH

[illegible]

Engineering Log - Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA**
 Borehole Location: **Building 1**

Geotechnical No: **GBH22**
 Sheet: **1 of 1**
 Project No: **GEOTLCOY23462AA**
 Date started: **25.3.2008**
 Date completed: **25.3.2008**
 Engineering: **JA**
 Checked by: **SH**

Borehole Location		Building 1		Date		Time		Depth		Notes		Surface		Use	
Drilling location:		Middle Unit 1		10/10/10		10:00		10:00		10:00		10:00		10:00	
Borehole diameter:		100mm		100mm		100mm		100mm		100mm		100mm		100mm	
Drilling Information				Material Substance				Material Substance				Material Substance			
Drilling Information				Material Substance				Material Substance				Material Substance			
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Drilling Information				Material Substance											

Borehole ID: 185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA

Form G10.1 (Rev 1) 08/08

Engineering Log - Borehole

Client Taylor Thompson Whitting

Philly, PA *Cofley Projects*

Project 185 FOX VALLY ROAD, SAN HOSPITAL, WAHRUONGA

Cochehole Location: *Building 2*

Barcode No CBH23

Shoel 1 of 1

[Project No] GEOTLCOV23462AA

12/1/2018	25.9 2008
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Date received: 25.3.2008

Logged by: JA

Created by: SA

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Engineering Log - Borehole

Cheer Taylor Thomson Whiting

165 FOX VALLY ROAD, SAN HOSPITAL, WANHOONGA

Herbicide Location: **Building 2**

Burghale No **CBH24**

54001 1 ul 5

Hyundai NO GEOTLCOV2346241

Date started: 25.3.2008

Date completed: 25.3.2008

Logged by JA

Checked by: SH

Engineering Log - Borehole

Client: Taylor Thomson Whitting

Principal: Coffey Projects

Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Borehole Location: Building 2

Borehole No: CBH25

Sheet: 1 of 1

Project No: GEOTLCOV23462AA

Date started: 25.3.2008

Date completed: 25.3.2008

Logged by: JA

Checked by: SH

orthogonal and mounting	Mobile DTM R60	Easting	273657.4	slope	-50'	R.I. Surface	181.396
hole diameter	100 mm	Northing	6265674.4	bearing		datum	AHD

drilling information				material substance						structure and additional observations	
method	penetration	support	notes samples, tests, etc.	RI	depth (metres)	graphic log	classification symbol	material	moisture condition	consistency/density index	
ADT		NOT OBSERVED			46'			FILL: BITUMEN and ROADBASE	D		FILL
					1			FILL: GRAVELLY SAND: Med ungrained, greyish-brown, medium to coarse sandstone gravel.			
								SANDSTONE: Med ungrained, pale yellow.			SANDSTONE
								Borehole CBH25 terminated at 1m			
					160						
					2						
					158						
					156						
					4						
					157						
					5						
					156						
					6						
					155						
					7						
					154						
					8						
method	auger screw log auger drop log refill/raise waterline cable tool hand auger dial bore bathymetry Vib TC log as shown by surface ADT	support M mud C casing penetration 1 2 3 4 water 1/2" 3/8" water level or data shown water inflow water overflow	notes, samples, tests undisturbed sample 50mm diameter undisturbed sample 60mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone vane shear (kPa) preconsolidation bulk sample environmental sample refusal	classification symbols and soil description based on unified classification system moisture D dry M moist W wet Wp plastic limit WL liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fh friable VL very loose L loose VD medium dense D dense VD very dense						

Form GEO-53 Issue 3 Rev 2

method
AS auger screwing
AD auger drilling
RR roller cone
W wash core
CT core
HA hand auger
OT
B bit
V V
T T
E E

support
M mud
C casing
penetration
1 2 3 4
water
100% water level
water in flow
water on flow

notes, samples, tests
U₁ undisturbed sample 50mm diameter
U₂ undisturbed sample 60mm diameter
D disturbed sample
N standard penetration test (SPT)
N₁ SPT - sample recovered
N₂ SPT with solid cone
V vane shear (kPa)
P piezometer
Bs bulk sample
E environmental sample
R refusal

classification symbols and soil description based on unified classification system
moisture
0 dry
M moist
W wet
Wp plastic limit
WL liquid limit

consistency/density index
VS very soft
S soft
F firm
St stiff
VSI very stiff
H hard
Ft fracture
VL very loose
L loose
VD medium dense
D dense
VD very dense

Engineering Log - Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA**
 Borehole Location: **Building 2**

Borehole No: **CBH26**
 Sheet: **1 of 1**
 Project No: **GEOTLCOV23462AA**
 Date started: **25.3.2008**
 Date completed: **25.3.2008**
 Logged by: **JA**
 Checked by: **SH**

drill model and mounting: **Hand Auger** Easting: **523887.6** slope: **-50°** RL Surface: **159.132**
 hole diameter: **300 mm** Northing: **6265897.6** bearing: datum: **AHD**

drilling information				material substance									
method	penetration	support	notes samples tests, etc	RI	depth meters	graphic log	classification symbol	material	moisture condition	consistency/ density index	penetration mm	penetration mm	structure and additional observations
1	2	3						soil type, plasticity or particle characteristics, coarse, secondary and minor components.			100	200	
HA								FILL: SILTY CLAYEY SAND: Topsoil, tree grained, pale brown. Borehole's CBH26 terminated at 0.1m					FILL
		NOT OBSERVED			0.1								
					0.5								
					1.0								
					1.5								
					2.0								
					2.5								
					3.0								
					3.5								
					4.0								
method	notes, samples, tests			classification symbols and soil description based on unified classification system				consistency/density index					
AS	auger screwing							VS very soft					
AO	auger drilling							S soft					
AR	rotary auger							F firm					
W	washbore							SI stiff					
CI	cable tool							VS very stiff					
HA	hand auger							H hard					
O	oatmeal							Fb friable					
h	blow test							VL very loose					
V	V test							I loose					
I	TC test							MD medium dense					
known by suffix e.g.	NOT							D dense					
								VD very dense					

Engineering Log - Borehole

Client **Taylor Thomson Whitting**

Principal: **Coffey Projects**

Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Borehole Location: *Building 2*

Borehole No. CBH27

Steel 1 of 1

Project No. **GEOTLCOV23462AA**

Date started 25.3.2008

Date completed: 25.3.2008

Logged by: JA

Checked by **SH**

drilling information		material substance	
method	penetration	notes	classification
1	2	3	4
HA	159.6	159.6	159.6
AS	157.6	157.6	157.6
AD	156.5	156.5	156.5
NR	156.0	156.0	156.0
W	157.0	157.0	157.0
C	156.5	156.5	156.5
HA	156.0	156.0	156.0
OT	156.0	156.0	156.0
R	156.0	156.0	156.0
V	156.0	156.0	156.0
T	156.0	156.0	156.0
Notes shown by suffix e.g. ADT			

Appendix C

Soil Vapour Results

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

photoionisation detector results

client:	TAYLOR THOMSON WHITTING				Office:	LANE COVE	
project:	CONTAMINATION ASSESSMENT				Date:	10/3/08	
location:	SYDNEY ADVENTIST HOSPITAL, 185 FOX VALLEY ROAD, WAHROONGA, NSW				By:	JA/DJD	
					Checked By:		
PID serial number: MINI RAE 2000 110-008460				lamp voltage: 10.6eV			
last checked/calibrated: 10/3/08				calibration gas type/concentration: Isobutylene/100ppm			

location number	test type*	bore or sample probe depth (m)	duration (mins)	background reading (ppm)	last reading (ppm)	maximum reading (ppm)	notes
CBH1	HS	0.0-0.1	1	0.0	5.9	7.1	Slow Rise - No Odour
CBH1	HS	0.4-0.5	1	0.0	7.4	10.8	Slow Rise - No Odour
CBH1	HS	1.0-1.2	1	0.0	6.4	10.2	Slow Rise - No Odour
CBH1	HS	1.20-1.45	1	0.0	5.5	8.7	Slow Rise - No Odour
CBH1	HS	2.65-2.95	1	0.0	19.3	19.4	Slow Rise - No Odour
CBH1	HS	3.4-3.6	1	0.0	21.9	22.7	Slow Rise - Organic Odour
CBH1	HS	3.90-3.95	1	0.0	21.8	22.0	Slow Rise - No Odour
CBH1	HS	4.35-4.50	1	0.0	12.4	16.4	Slow Rise - No Odour
CBH2	HS	0.15-0.25	1	0.0	6.5	16.2	Slow Rise - No Odour
CBH2	HS	0.6-0.7	1	0.0	16.9	25.9	Slow Rise - No Odour
CBH3	HS	0.00-0.15	1	0.0	5.2	8.5	Slow Rise - Organic Odour
CBH3	HS	0.15-0.50	1	0.0	12.6	14.1	Slow Rise - Organic Odour
CBH3	HS	1.35-1.45	1	0.0	10.3	14.0	Slow Rise - No Odour
CBH3	HS	2.4-2.5	1	0.0	10.2	13.2	Slow Rise - No Odour
CBH3	HS	4.30-4.34	1	0.0	11.7	16.4	Slow Rise - No Odour
CBH3	HS	2.65-2.90	1	0.0	8.7	10.1	Slow Rise - No Odour
CBH3	HS	3.9-4.0	1	0.0	17.3	17.5	Slow Rise - No Odour
CBH3	HS	4.0-4.3	1	0.0	12.1	14.5	Slow Rise - No Odour
CBH3	HS	5.3-5.4	1	0.0	19.1	20.4	Slow Rise - Organic Odour
CBH3	HS	5.5-5.7	1	0.0	9.5	10.6	Slow Rise - Organic Odour

*Fill in the test type as follows:-

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

*Fill in the test type as follows:-

BH () = soil gas probe sample, (soil type - unified classification system in parentheses)
 HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

[illegible]

*Fill in the test type as follows:-

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

client:	TAYLOR THOMSON WHITTING		Office:	LANE COVE			
project:	CONTAMINATION ASSESSMENT		Date:	13/3/08 & 14/3/08			
location:	SYDNEY ADVENTIST HOSPITAL, 185 FOX VALLEY ROAD, WAHROONGA, NSW		By:	JA			
PID serial number: MINI RAE 2000 110-008460			lamp voltage: 10.6eV				
last checked/calibrated: 13/3/2008 & 14/3/2008			calibration gas type/concentration: Isobutylene/100ppm				

location number	test type*	bore or sample probe depth (m)	duration (mins)	background reading (ppm)	last reading (ppm)	maximum reading (ppm)	notes
CBH8	HS	0.15-0.30	1	0.0	0.2	0.5	Slow Rise - No Odour
CBH8	HS	0.3-0.4	1	0.0	0.6	1.1	Slow Rise - No Odour
CBH8	HS	0.4-0.5	1	0.0	1.0	1.8	Slow Rise - No Odour
CBH8	HS	0.7-0.8	1	0.0	0.4	1.1	Slow Rise - No Odour
CBH9	HS	0.0-0.2	1	0.0	0.2	0.4	Slow Rise - No Odour
CBH9	HS	0.2-0.3	1	0.0	0.2	0.3	Slow Rise - No Odour
CBH9	HS	0.3-0.4	1	0.0	0.4	0.5	Slow Rise - No Odour
CBH9	HS	0.4-0.5	1	0.0	1.3	1.4	Slow Rise - No Odour
CBH10	HS	0.25-0.30	1	0.0	0.4	0.6	Slow Rise - No Odour
CBH10	HS	0.3-0.5	1	0.0	0.1	0.4	Slow Rise - No Odour
CBH10	HS	0.7-0.9	1	0.0	1.3	1.5	Slow Rise - No Odour
CBH11	HS	0.0-0.2	1	0.0	0.1	0.2	Slow Rise - Organic Odour
CBH11	HS	0.2-0.3	1	0.0	0.1	0.2	Slow Rise - No Odour
CBH11	HS	0.3-0.5	1	0.0	0.2	0.3	Slow Rise - No Odour
CBH11	HS	0.90-1.05	1	0.0	0.8	1.3	Slow Rise - No Odour

*Fill in the test type as follows:-

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

[illegible]

Fill in the test type as follows.

0.1 () and core probe sample: (soil type - unified classification system in parentheses)

HS () = headspace sample (with soil type-unified classification system; in parentheses)

photoionisation detector results

*Fill in the test type as follows:

BH { } = soil gas probe sample; (soil type - unified classification system in parentheses)
 HS { } = headspace sample (with soil type-unified classification system in parentheses)

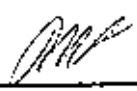
photoionisation detector results

[illegible]

*Fill in the test type as follows -

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

client:	TAYLOR THOMSON WHITTING		Office:	LANE COVE			
project:	CONTAMINATION ASSESSMENT		Date:	19/3/2008 & 20/3/2008			
location:	SYDNEY ADVENTIST HOSPITAL,		By:	JA			
	185 FOX VALLEY ROAD, WAHROONGA, NSW		Checked By:				
PID serial number:	MINI RAE 2000 110-008460		lamp voltage:	10.6eV			
last checked/calibrated:	19/3/2008 & 20/3/2008		calibration gas type/concentration:	Isobutylene/100ppm			

location number	test type*	bore or sample probe depth (m)	duration (mins)	background reading (ppm)	test reading (ppm)	maximum reading (ppm)	notes
CBH18	HS	0.3-0.5	1	0.0	7.5	8.7	Slow Rise - No Odour
CBH18	HS	2.60-2.95	1	0.5	6.5	6.8	Slow Rise - No Odour
CBH18	HS	4.10-4.45	1	0.0	4.1	4.2	Slow Rise - No Odour
CBH19	HS	0.2-0.3	1	0.0	0.2	0.7	Slow Rise - No Odour
CBH19	HS	0.3-0.5	1	0.3	0.8	5.9	Slow Rise - No Odour
CBH19	HS	1.10-1.45	1	0.0	4.3	7.9	Slow Rise - No Odour
CBH20	HS	0.2-0.3	1	0.0	1.6	4.7	Slow Rise - No Odour
CBH20	HS	0.3-0.5	1	0.0	1.0	2.7	Slow Rise - No Odour
CBH20	HS	0.8-1.0	0	0.0	1.2	2.7	Slow Rise - No Odour
CBH20	HS	1.10-1.45	1	0.1	3.8	4.1	Slow Rise - No Odour
CBH20	HS	2.60-2.95	1	0.2	4.0	4.4	Slow Rise - No Odour
CBH20	HS	4.10-4.45	1	0.2	2.8	5.5	Slow Rise - No Odour

*Fill in the test type as follows:-

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

client:	TAYLOR THOMSON WHITTING	Office:	LANE COVE
project:	CONTAMINATION ASSESSMENT	Date:	25/3/2008
location:	SYDNEY ADVENTIST HOSPITAL, 185 FOX VALLEY ROAD, WAHROONGA, NSW	By:	JA
		Checked By:	

PID serial number:	MINI RAE 2000 110-008460	lamp voltage:	10.6eV
last checked/calibrated:	25/3/2008	calibration gas type/concentration	Isobutylene/100ppm

location number	test type*	bore or sample probe depth (m)	duration (mins)	background reading (ppm)	last reading (ppm)	maximum reading (ppm)	notes
CBH21	HS	0.0-0.2	3	0.0	2.1	24.5	Slow Rise - No Odour
CBH21	HS	0.2-0.4	3	0.0	0.1	13.8	Slow Rise - No Odour
CBH21	HS	0.4-0.5	3	0.0	0.3	16.2	Slow Rise - No Odour
CBH21	HS	2.5-2.7	3	0.0	0.3	27.5	Slow Rise - No Odour
CBH21	HS	2.70-2.95	3	0.0	27.9	33.4	Slow Rise - No Odour
CBH21	HS	4.10-4.45	1	0.0	0.4	1.3	Slow Rise - No Odour
CBH21	HS	4.9-5.1	3	0.0	22.3	32.3	Slow Rise - No Odour
CBH22	HS	0.2-0.3	3	0.0	0.5	24.8	Slow Rise - No Odour
CBH22	HS	0.3-0.4	2	0.0	23.1	23.2	Slow Rise - No Odour
CBH22	HS	0.4-0.5	3	0.0	26.0	34.5	Slow Rise - No Odour
CBH22	HS	1.00-1.35	1	0.0	2.3	27.3	Slow Rise - No Odour
CBH22	HS	2.0-2.2	3	0.0	29.1	29.8	Slow Rise - No Odour
CBH22	HS	2.2-2.4	2	0.0	19.6	25.3	Slow Rise - No Odour
CBH23	HS	0.3-0.4	2	0.0	12.3	16.0	Slow Rise - No Odour
CBH23	HS	0.4-0.5	1	0.0	12.1	17.4	Slow Rise - No Odour
CBH23	HS	0.8-1.0	2	0.0	18.5	29.2	Slow Rise - No Odour
CBH24	HS	0.3-0.4	1	0.0	16.3	18.2	Slow Rise - No Odour
CBH24	HS	0.4-0.5	1	0.0	3.2	18.1	Slow Rise - No Odour
CBH24	HS	0.8-1.0	1	0.0	11.7	12.1	Slow Rise - No Odour

*Fill in the test type as follows:-

BH () = soil gas probe sample; (soil type - unified classification system in parentheses)
HS () = headspace sample (with soil type-unified classification system in parentheses)

photoionisation detector results

*Fill in the test type as follows:-

BH () - soil gas probe sample, (soil type - unified classification system in parentheses)

HS () = headspace sample (with soil type-united classification system in parentheses)

Appendix D

Laboratory Reports

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GEOTLCOV23462AA

Report Number: 223642 Page 1 of 10
Order Number:
Date Received: Mar 17, 2008
Date Sampled: Mar 10, 2008
Date Reported: Mar 27, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 223642

Michael Wright
Laboratory Manager
NATA Signatory

Onur Mehmet
Client Manager
NATA Signatory

Orlando Scalzo
Chief Organic Chemist
NATA Signatory

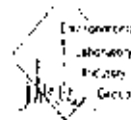
Tammy Lakeland
Chief Inorganic Chemist

NATA

NATA Accredited
Laboratory Number 1261

The tests, calibration and measurement covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025 and any test, calibration or measurement standards of national standards of equivalent rank. This document shall not be reproduced, except in full.

ISO 17025:2005
ACCREDITATION



Member

Client Sample ID		CBH_0.0-0.1	CBH_1.2-1.45	CBH_2.65-2.95	QC100
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA06816	08-MA06819	08-MA06820	08-MA06821
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
	LOR				
Analysis Type		Units			
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC		mg/kg	•	•	•
TRH C10-C14 Fraction by GC		mg/kg	•	•	•
TRH C15-C28 Fraction by GC		mg/kg	•	•	•
TRH C29-C36 Fraction by GC		mg/kg	•	•	•
Monocyclic Aromatic Hydrocarbons					
Benzene		mg/kg	•	•	•
Toluene		mg/kg	•	•	•
Ethylbenzene		mg/kg	•	•	•
Xylenes (ortho, meta and para)		mg/kg	•	•	•
Fluorobenzene (surr.)		%	•	•	•
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		mg/kg	•	•	•
Acenaphthylene		mg/kg	•	•	•
Anthracene		mg/kg	•	•	•
Benz(a)anthracene		mg/kg	•	•	•
Benz(a)pyrene		mg/kg	•	•	•
Benz(b)fluoranthene		mg/kg	•	•	•
Benz(g,h,i)perylene		mg/kg	•	•	•
Benz(k)fluoranthene		mg/kg	•	•	•
Chrysene		mg/kg	•	•	•
Dibenz(a,h)anthracene		mg/kg	•	•	•
Fluoranthene		mg/kg	•	•	•
Fluorene		mg/kg	•	•	•
Indeno(1,2,3-cd)pyrene		mg/kg	•	•	•
Naphthalene		mg/kg	•	•	•
Phenanthrene		mg/kg	•	•	•
Pyrene		mg/kg	•	•	•
Total PAH		mg/kg	•	•	•
Chrysene-d12 (surr.)		%	106	•	•
2-Fluorobiphenyl (surr.)		%	100	•	•

Client Sample ID		CBH_0.0-0.1		CBH_1.2-1.45		CBH_2.65-2.95		QC100	
Lab Number		08-MA06818		08-MA06819		08-MA06820		08-MA06821	
Matrix		Soil		Soil		Soil		Soil	
Sample Date		Mar 10, 2008		Mar 10, 2008		Mar 10, 2008		Mar 10, 2008	
LOR									
Units									
Analysis Type									
Organochlorine Pesticides									
4,4'-DDD		0.05	mg/kg	< 0.05					
4,4'-DDE		0.05	mg/kg	< 0.05					
4,4'-DDT		0.05	mg/kg	< 0.05					
α-BHC		0.05	mg/kg	< 0.05					
Aldrin		0.05	mg/kg	< 0.05					
γ-BHC		0.05	mg/kg	< 0.05					
Chlordane		0.1	mg/kg	< 0.1					
α-BHC		0.05	mg/kg	< 0.05					
Dieldrin		0.05	mg/kg	< 0.05					
Endosulfan I		0.05	mg/kg	< 0.05					
Endosulfan II		0.05	mg/kg	< 0.05					
Endosulfan sulphate		0.05	mg/kg	< 0.05					
Endrin		0.05	mg/kg	< 0.05					
Endrin aldehyde		0.05	mg/kg	< 0.05					
Endrin ketone		0.05	mg/kg	< 0.05					
γ-BHC (Lindane)		0.05	mg/kg	< 0.05					
Heptachlor		0.05	mg/kg	< 0.05					
Heptachlor epoxide		0.05	mg/kg	< 0.05					
Hexachlorobenzene		0.05	mg/kg	< 0.05					
Methoxychlor		0.05	mg/kg	< 0.05					
Toxaphene		0.1	mg/kg	< 0.1					
Dibutylchloride (sum.)		1	%	81					
Tetrachloro-m-xylene (sum.)		1	%	92					
Polychlorinated Biphenyls									
Aroclor-1016		0.1	mg/kg	< 0.1					
Aroclor-1221		0.1	mg/kg	< 0.1					
Aroclor-1232		0.1	mg/kg	< 0.1					
Aroclor-1242		0.1	mg/kg	< 0.1					

Client Sample ID		CBH_0.0-0.1	CBH_1.2-1.45	CBH_2.65-2.95	QC100
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA06818	08-MA06819	08-MA06820	08-MA06821
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
	LOR				
Analysis Type	Units				
	mg/kg	< 0.1	-	-	-
	mg/kg	< 0.1	-	-	-
	mg/kg	< 0.1	-	-	-
Total PCB	mg/kg	< 1	-	-	-
	%	81	-	-	-
	%	92	-	-	-
	%	16	16	15	16
Heavy Metals (7)	mg/kg	< 2	-	< 2	30
	mg/kg	< 0.5	-	< 0.5	< 0.5
	mg/kg	20	-	5.9	21
	mg/kg	10	-	< 5	20
Lead	mg/kg	21	-	11	35
	mg/kg	11	-	< 5	13
	mg/kg	21	-	< 5	52
	mg/kg	< 0.1	-	< 0.1	< 0.1
Heavy Metals	mg/kg	< 0.1	-	< 0.1	< 0.1
	mg/kg	< 0.1	-	< 0.1	< 0.1
	mg/kg	< 0.1	-	< 0.1	< 0.1
	mg/kg	< 0.1	-	< 0.1	< 0.1

Coffey Geotechnics Pty Ltd

Client Sample ID		CBH2_0.15-0.25	CBH3_0.0-0.15	CBH3_2.65-2.9	CBH3_5.7-5.95
Lab Number		08-MA06822	08-MA06823	08-MA06824	08-MA06825
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 10, 2008	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
LOR	Units				
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC	mg/kg	< 20	-	-	< 20
TRH C10-C14 Fraction by GC	mg/kg	< 50	-	-	< 50
TRH C15-C28 Fraction by GC	mg/kg	< 100	-	-	< 100
TRH C29-C36 Fraction by GC	mg/kg	< 100	-	-	< 100
Monocyclic Aromatic Hydrocarbons					
Benzene	mg/kg	< 0.05	-	-	< 0.05
Toluene	mg/kg	< 0.05	-	-	< 0.05
Ethylbenzene	mg/kg	< 0.05	-	-	< 0.05
Xylenes(ortho,meta and para)	mg/kg	< 0.05	-	-	< 0.05
Fluorobenzene (surr.)	%	89	-	-	71
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	mg/kg	-	-	< 0.1	-
Acenaphthylene	mg/kg	-	-	< 0.1	-
Anthracene	mg/kg	-	-	< 0.1	-
Benzo(a)anthracene	mg/kg	-	-	< 0.1	-
Benzo(a)pyrene	mg/kg	-	-	< 0.1	-
Benzo(b)fluoranthene	mg/kg	-	-	< 0.1	-
Benzo(g,h,i)perylene	mg/kg	-	-	< 0.1	-
Benzo(k)fluoranthene	mg/kg	-	-	< 0.1	-
Chrysene	mg/kg	-	-	< 0.1	-
Dibenz(a,h)anthracene	mg/kg	-	-	< 0.1	-
Fluoranthene	mg/kg	-	-	< 0.1	-
Fluorene	mg/kg	-	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	< 0.1	-
Naphthalene	mg/kg	-	-	< 0.1	-
Phenanthrene	mg/kg	-	-	< 0.1	-
Pyrene	mg/kg	-	-	< 0.1	-
Total PAH	mg/kg	-	-	< 0.1	-
Chrysene-d12 (surr.)	%	-	-	104	-
2-Fluorobiphenyl (surr.)	%	-	-	84	-

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID		CBH2_0.15-0.25	CBH3_0.0-0.15	CBH3_2.65-2.9	CBH3_5.7-5.95
Unit 1/222 Berkeley St		Lab Number		08-MA06822	08-MA06823	08-MA06824	08-MA06825
Unanderra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Mar 10, 2008	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
Analysis Type		LOR	Units				
% Moisture		0.1	%	10	17	15	17
Heavy Metals (7)							
Arsenic		2	mg/kg	5.8	6.4	.	< 2
Cadmium		0.5	mg/kg	< 0.5	< 0.5	.	< 0.5
Chromium		5	mg/kg	14	25	.	25
Copper		5	mg/kg	< 5	29	.	< 5
Lead		5	mg/kg	16	280	.	17
Nickel		5	mg/kg	< 5	51	.	< 5
Zinc		5	mg/kg	19	120	-	< 5
Heavy Metals							
Mercury		0.1	mg/kg	< 0.1	< 0.1	-	< 0.1

Client Sample ID		RPD	CEH_0.0-0.1	Method blank
Lab Number		BATCH	08-MA06818	Batch
QA Description			Spoke % Recovery	
Matrix		Soil	Soil	Soil
Sample Date		Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
Units			% Recovery	mg/L
Analysis Type				
Organochlorine Pesticides				
4,4'-DDD		< 1	120	< 0.005
4,4'-DDE		< 1	123	< 0.005
4,4'-DDT		< 1	126	< 0.005
a-BHC		< 1	100	< 0.005
Aldrin		< 1	113	< 0.005
b-BHC		< 1	92	< 0.005
Chlordane		< 1	98	< 0.01
d-BHC		< 1	109	< 0.005
Dieldrin		< 1	129	< 0.005
Endosulfan I		< 1	116	< 0.005
Endosulfan II		< 1	115	< 0.005
Endosulfan sulphate		< 1	112	< 0.005
Endrin		< 1	107	< 0.005
Endrin aldehyde		< 1	108	< 0.005
Endrin ketone		< 1	101	< 0.005
g-BHC (Lindane)		< 1	107	< 0.005
Heptachlor		< 1	119	< 0.005
Heptachlor epoxide		< 1	117	< 0.005
Hexachlorobenzene		< 1	95	< 0.005
Methoxychlor		< 1	106	< 0.005
Toxophene		< 1	89	< 0.01
Polychlorinated Biphenyls				
Aroclor-1016		< 1	-	< 0.01
Aroclor-1221		< 1	-	< 0.01
Aroclor-1232		< 1	-	< 0.01
Aroclor-1242		< 1	-	< 0.01
Aroclor-1248		< 1	-	< 0.01
Aroclor-1254		< 1	-	< 0.01

COMMENTS:

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526		Client Sample Lab Number QA Description Matrix Sample Date Units		RPD BATCH Soil Mar 10, 2009	CBH 0.0-0.1 08-MA06818 Spike % Recovery Soil Mar 10, 2009 % Recovery	Method blank Batch Soil Mar 10, 2009 mg/L
Analysis Type						
Polychlorinated Biphenyls						
Aroclor-1260				< 1	-	< 0.01
Total PCB				< 1	105	< 0.1
Dibutylchloride (sur.)				-	89	73
Tetrachloro-m-xylene (sur.)				.	90	107
Heavy Metals (7)						
Arsenic				< 1	88	< 0.05
Cadmium				< 1	95	< 0.02
Chromium				.	86	< 0.2
Copper				18	96	< 0.2
Lead				< 1	86	< 0.05
Nickel				.	87	< 0.2
Zinc				17	88	< 0.2
Heavy Metals						
Mercury				< 1	70	< 0.005

Coffey Geotechnics Pty Ltd					Client Sample ID	RPD	CBH_12-145	Method blank
Unit 1/222 Berkeley St					Lab Number*	BATCH	08-MA06819	Batch
Unanderria					QA Description		Spike % Recovery	
NSW 2526					Matrix	Soil	Soil	Soil
					Sample Date	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
Analysis Type					Units		% Recovery	mg/L
Polycyclic Aromatic Hydrocarbons								
Acenaphthene						< 1	70	< 0.02
Acenaphthylene						< 1	79	< 0.02
Anthracene						< 1	86	< 0.02
Benzo(a)anthracene						< 1	127	< 0.02
Benzo(a)pyrene						< 1	89	< 0.02
Benzo(b)fluoranthene						< 1	89	< 0.02
Benzo(g,h,i)perylene						< 1	103	< 0.02
Benzo(k)fluoranthene						< 1	92	< 0.02
Chrysene						< 1	118	< 0.02
Dibenz(a,h)anthracene						< 1	103	< 0.02
Fluoranthene						< 1	100	< 0.02
Fluorene						< 1	74	< 0.02
Indeno(1,2,3-cd)pyrene						< 1	107	< 0.02
Naphthalene						< 1	74	< 0.02
Phenanthrene						< 1	88	< 0.02
Pyrene						< 1	100	< 0.02
Total PAH						-	-	< 0.02
Chrysene-d12 (surr)						-	138	122
2-Fluorobiphenyl (surr)						-	111	102

Corey Geotechnics Pty Ltd		Client Sample ID	RPD	CBH_2.65-2.95	Method blank
Unit 1/222 Berkeley St		Lab Number	BATCH	08-MA06820	Batch
Unanderra		DA Description		Spike % Recovery	
NSW 2526		Matrix	Soil	Soil	Soil
		Sample Date	Mar 10, 2008	Mar 10, 2008	Mar 10, 2008
Analysers Type		Units		% Recovery	mg/l
Total Recoverable Hydrocarbons					
TRH C5-C9 Fraction by GC			< 1	89	< 0.02
TRH C10-C14 Fraction by GC			< 1	110	< 0.35
TRH C15-C28 Fraction by GC			< 1	-	< 0.1
TRH C29-C36 Fraction by GC			< 1	-	< 0.1
Monocyclic Aromatic Hydrocarbons					
Benzene			< 1	92	< 0.005
Toluene			< 1	97	< 0.005
Ethylbenzene			< 1	88	< 0.005
Xylenes(ortho meta and para)			< 1	98	< 0.005
Fluorobenzene (surrogate)			-	93	93

COMMENTS:

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GEOTLCOV23462AA

Report Number: 223654 Page 1 of 9
Order Number:
Date Received: Mar 17, 2008
Date Sampled: Mar 11, 2008
Date Reported: Mar 27, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 6020 Heavy Metals
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

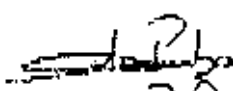
Report Number: 223654



Michael Wright
Laboratory Manager
NATA Signatory



Omar Mehmet
Client Manager
NATA Signatory



Orlando Scazzo
Chief Organic Chemist
NATA Signatory



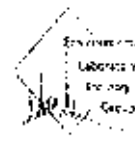
Tammy Lakebrand
Chief Inorganic Chemist

NATA

ISO 17025
ACCREDITED

NATA Accredited
Laboratory Number 1261

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Member

Client Sample ID		CHB4 0.05-0.2M	CHB4 0.3-0.5M	CHB5 0.05-0.25M	CHB5 0.4-0.5M
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA06903	08-MA06904	08-MA06905	08-MA06907
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
	LOR				
Analysis Type		Units			
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC		mg/kg	< 20	< 20	-
TRH C10-C14 Fraction by GC		mg/kg	< 50	< 50	-
TRH C15-C28 Fraction by GC		mg/kg	< 100	< 100	-
TRH C29-C36 Fraction by GC		mg/kg	< 100	< 100	-
Monocyclic Aromatic Hydrocarbons					
Benzene		mg/kg	< 0.05	< 0.05	-
Toluene		mg/kg	< 0.05	< 0.05	-
Ethylbenzene		mg/kg	< 0.05	< 0.05	-
Xylenes(ortho meta and para)		mg/kg	< 0.1	< 0.05	-
Fluorobenzene (surr.)		%	55	70	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		mg/kg	< 0.1	< 0.1	-
Acenaphthylene		mg/kg	< 0.1	< 0.1	-
Anthracene		mg/kg	< 0.1	< 0.1	-
Benz(a)anthracene		mg/kg	< 0.1	< 0.1	-
Benz(a)pyrene		mg/kg	< 0.1	< 0.1	-
Benz(b)fluoranthene		mg/kg	< 0.1	< 0.1	-
Benz(g,h,i)perylene		mg/kg	< 0.1	< 0.1	-
Benz(k)fluoranthene		mg/kg	< 0.1	< 0.1	-
Chrysene		mg/kg	< 0.1	< 0.1	-
Dibenz(a,h)anthracene		mg/kg	< 0.1	< 0.1	-
Fluoranthene		mg/kg	< 0.1	< 0.1	-
Fluorene		mg/kg	< 0.1	< 0.1	-
Indeno(1,2,3-cd)pyrene		mg/kg	< 0.1	< 0.1	-
Naphthalene		mg/kg	< 0.1	< 0.1	-
Phenanthrene		mg/kg	< 0.1	0.2	-
Pyrene		mg/kg	< 0.1	0.2	-
Total PAH		mg/kg	< 0.1	< 0.1	-
Chrysene-d12 (surr.)		%	106	107	-
2-Fluorobiphenyl (surr.)		%	96	95	-

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID		CHB4 0.05-0.2M	CHB4 0.3-0.5M	CHB5 0.05-0.25M	CHB5 0.4-0.5M
Unit 1/222 Berkeley St		Lab Number		08-MA06903	08-MA06904	08-MA06905	08-MA06907
Unanderra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Mar 11, 2008	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
Analysis Type		LOR	Units				
% Moisture		0.1	%	7.0	14	5.3	14
Heavy Metals (7)							
Arsenic		2	mg/kg	5.9	11	3.0	7.2
Cadmium		0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium		5	mg/kg	33	29	95	28
Copper		5	mg/kg	14	< 5	31	7.2
Lead		5	mg/kg	13	15	< 5	11
Nickel		5	mg/kg	16	< 5	71	8.3
Zinc		5	mg/kg	28	5.9	52	16
Heavy Metals							
Mercury		0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1

Coffey Geotechnics Pty Ltd

Client Sample ID		CHB6 0.2-0.3M	CHB6 0.4-0.5M	RB102
Unit 1/222 Berkeley St	Lab Number	08-MA06908	08-MA06909	08-MA06910
Unanderra	Matrix	Soil	Soil	Water
NSW 2526	Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
Analysis Type	LOR	Units		
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC	20	mg/kg	< 20	< 0.02
TRH C10-C14 Fraction by GC	50	mg/kg	< 50	< 0.05
TRH C15-C28 Fraction by GC	100	mg/kg	< 100	< 0.1
TRH C29-C36 Fraction by GC	100	mg/kg	< 100	< 0.1
Monocyclic Aromatic Hydrocarbons				
Benzene	0.05	mg/kg	< 0.05	< 0.001
Toluene	0.05	mg/kg	< 0.05	< 0.001
Ethylbenzene	0.05	mg/kg	< 0.05	< 0.001
Xylenes (ortho meta and para)	0.05	mg/kg	< 0.05	< 0.001
Fluorobenzene (surr.)	1	%	71	83
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.1	mg/kg	< 0.1	< 0.001
Acenaphthylene	0.1	mg/kg	< 0.1	< 0.001
Anthracene	0.1	mg/kg	< 0.1	< 0.001
Benz(a)anthracene	0.1	mg/kg	< 0.1	< 0.001
Benzo(a)pyrene	0.1	mg/kg	< 0.1	< 0.001
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	< 0.001
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	< 0.001
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	< 0.001
Chrysene	0.1	mg/kg	< 0.1	< 0.001
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	< 0.001
Fluoranthene	0.1	mg/kg	< 0.1	< 0.001
Fluorene	0.1	mg/kg	< 0.1	< 0.001
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	< 0.001
Naphthalene	0.1	mg/kg	< 0.1	< 0.001
Phenanthrene	0.1	mg/kg	< 0.1	< 0.001
Pyrene	0.1	mg/kg	< 0.1	< 0.001
Total PAH	0.1	mg/kg	< 0.1	< 0.001
Chrysene-d12 (surr.)	1	%	96	123
2-Fluorobiphenyl (surr.)	1	%	89	82

COMMENTS:

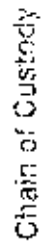
Coffey Geotechnics Pty Ltd		Client Sample ID		CHB6 0.2-0.3M		CHB6 0.4-0.5M		RB102	
Unit 1/222 Berkeley St		Lab Number		08-MA06908		08-MA06909		08-MA06910	
Unanderra		Matrix		Soil		Soil		Water	
NSW 2526		Sample Date		Mar 11, 2008		Mar 11, 2008		Mar 11, 2008	
Analysis Type		LOR		Units					
% Moisture		0.1		%		12		8.7	
Heavy Metals (?)									
Arsenic		2		mg/kg		2.7		3.8	
Cadmium		0.5		mg/kg		< 0.5		< 0.5	
Chromium		5		mg/kg		88		16	
Copper		5		mg/kg		28		5.9	
Lead		5		mg/kg		< 5		< 0.001	
Nickel		5		mg/kg		67		< 5	
Zinc		5		mg/kg		53		19	
Heavy Metals									
Mercury		0.1		mg/kg		< 0.1		< 0.1	

Client Sample ID	Lab Number	QA Description	Matrix	Sample Date	Units	RPD	CHB4 0.05-0.2M	Method blank
Colley Geotechnics Pty Ltd	Unit 1/222 Berkeley St	Unidentified	NSW 2526	Mar 11, 2008		BATCH	08-MA06903	Batch
Analysis Type								
Total Recoverable Hydrocarbons								
TRH C6-C9 Fraction by GC						< 1	116	< 0.02
TRH C10-C14 Fraction by GC						< 1	110	< 0.05
TRH C15-C28 Fraction by GC						< 1	.	< 0.1
TRH C29-C36 Fraction by GC						< 1	.	< 0.1
Monocyclic Aromatic Hydrocarbons								
Benzene						< 1	115	< 0.005
Toluene						< 1	93	< 0.005
Ethylbenzene						< 1	87	< 0.005
Xylenes(ortho,meta and para)						< 1	78	< 0.005
Fluorobenzene (sum)						.	85	99
Polycyclic Aromatic Hydrocarbons								
Acenaphthene						< 1	92	< 0.02
Acenaphthylene						< 1	107	< 0.02
Anthracene						< 1	108	< 0.02
Benzo(a)anthracene						< 1	90	< 0.02
Benzo(a)pyrene						< 1	96	< 0.02
Benzo(b)fluoranthene						< 1	83	< 0.02
Benzo(g,h,i)perylene						< 1	100	< 0.02
Benzo(k)fluoranthene						< 1	100	< 0.02
Chrysene						< 1	92	< 0.02
Dibenz(a,h)anthracene						< 1	104	< 0.02
Fluoranthene						< 1	104	< 0.02
Fluorene						< 1	96	< 0.02
Indeno(1,2,3-cd)pyrene						< 1	92	< 0.02
Naphthalene						< 1	93	< 0.02
Phenanthrene						< 1	104	< 0.02
Pyrene						< 1	111	< 0.02
Total PAH						.	.	< 0.02

COMMENTS:

MGT Report No. 223654
Page 7 of 9

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526 Analysis Type Heavy Metals Mercury	Client Sample ID	CHB4 0.3-0.5M	CHB4 0.3-0.5M	CHB4 0.3-0.5M	CHB4 0.3-0.5M	Method blank
	Lab Number	08-MA06904	08-MA06904	08-MA06904	08-MA06904	Batch
	QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
	Matrix	Soil	Soil	Soil	Soil	Soil
	Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
	Units			% RPD	% Recovery	mg/L
		< 0.1	< 0.1	< 1	80	< 0.005

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1503492-7100-1001

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 223782 Page 1 of 17
Order Number:
Date Received: Mar 19, 2008
Date Sampled: Mar 12, 2008
Date Reported: Mar 27, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 223782

Michael Wright
Laboratory Manager
NATA Signatory

Onur Mehmet
Client Manager
NATA Signatory

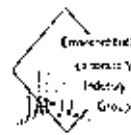
Orlando Scalzo
Chief Organic Chemist
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Tammy Ireland
Chief Inorganic Chemist



ACCREDITATION

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Laboratory Number 1361
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Member

Client Sample ID		CBH7 0.0-1.5	CBH7 1.0-1.3	CBH7 2.8-2.9	CBH8 0.15-0.3
Lab Number		08-MA07925	08-MA07926	08-MA07927	08-MA07928
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 12, 2008	Mar 12, 2008	Mar 12, 2008	Mar 13, 2008
LOR					
Units					
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC		-	< 20	< 20	-
TRH C10-C14 Fraction by GC		-	< 50	< 50	-
TRH C15-C28 Fraction by GC		-	< 100	< 100	-
TRH C29-C36 Fraction by GC		-	< 100	< 100	-
Monocyclic Aromatic Hydrocarbons					
Benzene		mg/kg	< 0.1	< 0.1	-
Toluene		mg/kg	< 0.1	< 0.1	-
Ethylbenzene		mg/kg	< 0.1	< 0.1	-
Xylenes (ortho, meta, and para)		mg/kg	< 0.1	< 0.1	-
Fluorobenzene (sum.)		%	57	51	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthylene		mg/kg	< 0.1	< 0.1	< 0.1
Anthracene		mg/kg	< 0.1	< 0.1	< 0.1
Benz(a)anthracene		mg/kg	< 0.1	< 0.1	< 0.1
Benz(b)fluoranthene		mg/kg	< 0.1	< 0.1	< 0.1
Benz(g,h,i)perylene		mg/kg	< 0.1	< 0.1	< 0.1
Benz(k)fluoranthene		mg/kg	< 0.1	< 0.1	< 0.1
Chrysene		mg/kg	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene		mg/kg	< 0.1	< 0.1	< 0.1
Fluoranthene		mg/kg	< 0.1	< 0.1	< 0.1
Fluorene		mg/kg	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene		mg/kg	< 0.1	< 0.1	< 0.1
Naphthalene		mg/kg	< 0.1	< 0.1	< 0.1
Phenanthrene		mg/kg	< 0.1	< 0.1	< 0.1
Pyrene		mg/kg	< 0.1	< 0.1	< 0.1
Total PAH		mg/kg	< 0.1	< 0.1	< 0.1
Chrysene-d12 (sum.)		%	102	104	94
2-Fluorobiphenyl (sum.)		%	77	95	80

Client Sample ID		CBH7 0.0-1.5	CBH7 1.0-1.3	CBH7 2.8-2.9	CBH8 0.15-0.3
Lab Number		08-MA07925	08-MA07926	08-MA07927	08-MA07928
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 12, 2008	Mar 12, 2008	Mar 12, 2008	Mar 13, 2008
LOR		Units			
Analysis Type					
Organochlorine Pesticides					
4,4'-DDD		0.05	< 0.05	< 0.05	-
4,4'-DDE		0.05	< 0.05	< 0.05	-
4,4'-DDT		0.05	< 0.05	< 0.05	-
a-BHC		0.05	< 0.05	< 0.05	-
a-Alrin		0.05	< 0.05	< 0.05	-
b-BHC		0.05	< 0.05	< 0.05	-
Chlordane		0.1	< 0.1	< 0.1	-
d-BHC		0.05	< 0.05	< 0.05	-
Dieldrin		0.05	< 0.05	< 0.05	-
Endosulfan I		0.05	< 0.05	< 0.05	-
Endosulfan II		0.05	< 0.05	< 0.05	-
Endosulfan sulphate		0.05	< 0.05	< 0.05	-
Fenrin		0.05	< 0.05	< 0.05	-
Fenrin aldehyde		0.05	< 0.05	< 0.05	-
Fenrin ketone		0.05	< 0.05	< 0.05	-
g-BHC (Lindane)		0.05	< 0.05	< 0.05	-
Heptachlor		0.05	< 0.05	< 0.05	-
Heptachlor epoxide		0.05	< 0.05	< 0.05	-
Hexachlorobenzene		0.05	< 0.05	< 0.05	-
Methoxychlor		0.1	< 0.1	< 0.1	-
Toxophene		1	101	123	-
Dibutylchlorotendate (sur.)		1	127	112	-
Tetrachloro-m-xylene (sur.)					
Polychlorinated Biphenyls					
Aroclor-1016		0.1	< 0.1	< 0.1	-
Aroclor-1221		0.1	< 0.1	< 0.1	-
Aroclor-1232		0.1	< 0.1	< 0.1	-
Aroclor-1242		0.1	< 0.1	< 0.1	-

Client Sample ID		CBH7 0-0.15	CBH7 1.0-1.3	CBH7 2.8-2.9	CBH8 0.15-0.3
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA07925	08-MA07926	08-MA07927	08-MA07928
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008	Mar 13, 2008
	LOR				
	Units				
Analysis Type					
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-
Total PCB	1	mg/kg	< 1	< 1	-
Dibutylchloride (sum.)	1	%	133	123	-
Tetrachloro-m-xylene (sum.)	1	%	116	112	-
% Moisture	0.1	%	23	18	7.8
Heavy Metals (7)					
Arsenic	2	mg/kg	3.2	5.7	2.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	26	120	27
Copper	5	mg/kg	27	< 5	22
Lead	5	mg/kg	12	< 5	6.0
Nickel	5	mg/kg	11	< 5	25
Zinc	5	mg/kg	29	5.2	23
Heavy Metals					
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St
 Unanderra
 NSW 2526

Client Sample ID	CBH8 0.4-0.5	CBH9 0.3-0.4	CBH9 0.4-0.5	CBH9 0.3-0.4	CBH9 0.4-0.5
Lab Number	08-MA07929	08-MA07930	08-MA07931	08-MA07932	08-MA07933
Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
LOR	Units				
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC	mg/kg				< 20
TRH C10-C14 Fraction by GC	mg/kg				< 50
TRH C15-C28 Fraction by GC	mg/kg				< 100
TRH C29-C36 Fraction by GC	mg/kg				< 100
Monocyclic Aromatic Hydrocarbons					
Benzene	0.05	mg/kg	< 0.1		< 0.1
Toluene	0.05	mg/kg	< 0.1		< 0.1
Ethylbenzene	0.05	mg/kg	< 0.1		< 0.1
Xylenes(ortho, meta and para)	0.05	mg/kg	< 0.1		< 0.1
Fluorobenzene (surr.)	1	%	52		76
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1		
Acenaphthylene	0.1	mg/kg	< 0.1		
Anthracene	0.1	mg/kg	< 0.1		
Benz(a)anthracene	0.1	mg/kg	< 0.1		
Benzo(a)pyrene	0.1	mg/kg	< 0.1		
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1		
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1		
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1		
Chrysene	0.1	mg/kg	< 0.1		
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1		
Fluoranthene	0.1	mg/kg	< 0.1		
Fluorene	0.1	mg/kg	< 0.1		
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1		
Naphthalene	0.1	mg/kg	< 0.1		
Phenanthrene	0.1	mg/kg	< 0.1		
Pyrene	0.1	mg/kg	< 0.1		
Total PAH	0.1	mg/kg	< 0.1		
Chrysene-d12 (surr.)	1	%	107		
2-Fluorobiphenyl (surr.)	1	%	107		

COMMENTS:

Cofey Geotechnics Pty Ltd	Client Sample ID	CBH8 0.4-0.5	CBH9 0.0-0.2	CBH9 0.3-0.4	CBH9 0.4-0.5
Unit 1/222 Berkeley St	Lab Number	08-MA07929	08-MA07930	08-MA07931	08-MA07932
Unanderra	Matrix	Soil	Soil	Soil	Soil
NSW 2526	Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
Analysis Type	LOR	Units			
Organochlorine Pesticides					
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-
Chlordane	0.1	mg/kg	< 0.1	< 0.1	-
δ-BHC	0.05	mg/kg	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-
γ-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	-
Dibutylchloride (sum.)	1	%	101	115	-
Tetrachloro-m-xylene (sum.)	1	%	101	111	-
% Moisture	0.1	%	7.1	14	10
Heavy Metals (7)					
Arsenic	2	mg/kg	< 2	-	50
Cadmium	0.5	mg/kg	< 0.5	-	< 0.5

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID	CBH0 0.4-0.5	CBH0 0.4-0.2	CBH0 0.3-0.4	CBH0 0.4-0.5
Unit 1/222 Berkeley St		Lab Number	08-MA07929	08-MA07930	08-MA07931	08-MA07932
Unanderra		Matrix	Soil	Soil	Soil	Soil
NSW 2526		Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
Analysis Type		LOR				
Chromium		5	mg/kg	91	-	30
Copper		5	mg/kg	32	-	< 5
Lead		5	mg/kg	< 5	-	< 5
Nickel		5	mg/kg	79	-	< 5
Zinc		5	mg/kg	91	-	< 5
Heavy Metals						
Mercury		0.1	mg/kg	< 0.1	-	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St
 Unanderra
 NSW 2526

Analysis Type	Client Sample ID	CBH10 0.25-0.3	CBH10 0.3-0.5	CBH10 0.7-0.9	CBH11 0.0-0.2
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC	20	mg/kg	-	< 20	-
TRH C10-C14 Fraction by GC	50	mg/kg	-	< 50	-
TRH C15-C28 Fraction by GC	100	mg/kg	-	< 100	-
TRH C29-C36 Fraction by GC	100	mg/kg	-	< 100	-
Monocyclic Aromatic Hydrocarbons					
Benzene	0.05	mg/kg	-	< 0.1	-
Toluene	0.05	mg/kg	-	< 0.1	-
Ethylbenzene	0.05	mg/kg	-	< 0.1	-
Xylenes (ortho meta and para)	0.05	mg/kg	-	< 0.1	-
Fluorobenzene (sum.)	1	%	-	66	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	-
Anthracene	0.1	mg/kg	< 0.1	-	-
Benzo(a)anthracene	0.1	mg/kg	0.1	-	-
Benzo(a)pyrene	0.1	mg/kg	< 0.1	-	-
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-
Chrysene	0.1	mg/kg	0.1	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-
Fluoranthene	0.1	mg/kg	0.2	-	-
Fluorene	0.1	mg/kg	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	-
Naphthalene	0.1	mg/kg	< 0.1	-	-
Phenanthrene	0.1	mg/kg	< 0.1	-	-
Pyrene	0.1	mg/kg	0.2	-	-
Total PAH	0.1	mg/kg	0.6	-	-
Chrysene-d12 (sum.)	1	%	95	-	-
2-Fluorobiphenyl (sum.)	1	%	78	-	-

COMMENTS:

Client Sample ID		CBH10 0.25-0.3	CBH10 0.3-0.5	CBH10 0.7-0.9	CBH11 0.0-0.2
Lab Number		08-MA07933	08-MA07934	08-MA07935	08-MA07936
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
LOR		Units			
Analysis Type					
Organochlorine Pesticides					
4,4'-DDD		mg/kg	< 0.05	.	.
4,4'-DDE		mg/kg	< 0.05	.	.
4,4'-DDT		mg/kg	< 0.05	.	.
a-BHC		mg/kg	< 0.05	.	.
Aldrin		mg/kg	< 0.05	.	.
b-BHC		mg/kg	< 0.05	.	.
Chlordane		mg/kg	< 0.1	.	.
d-BHC		mg/kg	< 0.05	.	.
Dieldrin		mg/kg	< 0.05	.	.
Endosulfan I		mg/kg	< 0.05	.	.
Endosulfan II		mg/kg	< 0.05	.	.
Endosulfan sulphate		mg/kg	< 0.05	.	.
Endrin		mg/kg	< 0.05	.	.
Endrin aldehyde		mg/kg	< 0.05	.	.
Endrin ketone		mg/kg	< 0.05	.	.
g-BHC (Lindane)		mg/kg	< 0.05	.	.
Heptachlor		mg/kg	< 0.05	.	.
Heptachlor epoxide		mg/kg	< 0.05	.	.
Hexachlorobenzene		mg/kg	< 0.05	.	.
Methoxychlor		mg/kg	< 0.05	.	.
Toxaphene		mg/kg	< 0.1	.	.
Dibutylchloride (surr.)		%	89	.	.
Tetrachloro-m-xylene (surr.)		%	87	.	.
% Moisture		%	10	7.3	14
Heavy Metals (7)					
Arsenic		mg/kg	8.7	.	4.3
Cadmium		mg/kg	< 0.5	.	< 0.5

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID	CBH10 0.25-0.3	CBH10 0.3-0.5	CBH10 0.7-0.9	CBH11 0.0-0.2
Unit 1/222 Berkeley St		Lab Number	08-MA07933	08-MA07934	08-MA07935	08-MA07936
Unanderra		Matrix	Soil	Soil	Soil	Soil
NSW 2526		Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
Analysis Type		Units				
Chromium		mg/kg	32	27	-	14
Copper		mg/kg	14	12	-	20
Lead		mg/kg	14	17	-	70
Nickel		mg/kg	14	9.5	-	< 5
Zinc		mg/kg	23	13	-	99
Heavy Metals						
Mercury		mg/kg	< 0.1	< 0.1	-	0.2

Coffey Geotechnics Pty Ltd

Unit 1222 Berkeley St

Unanderra

NSW 2526

Client Sample ID	CBH11 0.2-0.3	CBH11 0.9-1.05	QC106
Lab Number	08-MA07937	08-MA07938	08-MA07939
Matrix	Soil	Soil	Soil
Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
LOR			
Units			
Total Recoverable Hydrocarbons			
TRH C6-C9 Fraction by GC	-	< 20	-
TRH C10-C14 Fraction by GC	-	< 50	-
TRH C15-C28 Fraction by GC	-	< 100	-
TRH C29-C36 Fraction by GC	-	< 100	-
Monocyclic Aromatic Hydrocarbons			
Benzene	-	< 0.1	-
Toluene	-	< 0.1	-
Ethylbenzene	-	< 0.1	-
Xylenes(ortho,meta and para)	-	< 0.1	-
Fluorobenzene (surr.)	-	50	-
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	< 0.1	-	< 0.1
Acenaphthylene	< 0.1	-	< 0.1
Anthracene	0.2	-	0.1
Benz(a)anthracene	0.8	-	0.5
Benzof(a)pyrene	0.4	-	0.4
Benzof(b)fluoranthene	0.6	-	0.6
Benzof(k)fluoranthene	0.4	-	0.3
Chrysene	0.5	-	0.4
Dibenz(a,h)anthracene	0.7	-	0.5
Fluoranthene	< 0.1	-	< 0.1
Fluorene	1.6	-	1.1
Indeno(1,2,3-cd)pyrene	< 0.1	-	< 0.1
Naphthalene	0.3	-	0.2
Phenanthrene	< 0.1	-	< 0.1
Pyrene	0.7	-	0.4
Total PAH	1.5	-	1.1
Chrysene-d12 (surr.)	7.9	-	5.7
2-Fluorobiphenyl (surr.)	104	-	110
	94	-	99

COMMENTS.

Coffey Geotechnics Pty Ltd		Client Sample ID	CBH11 0.2-0.3	CBH11 0.9-1.05	QC106
Unit 1/222 Berkeley St		Lab Number	08-MA07937	08-MA07938	08-MA07939
Unanderra		Matrix	Soil	Soil	Soil
NSW 2526		Sample Date	Mar 13, 2008	Mar 13, 2008	Mar 13, 2008
Analysis Type		LOR	Units		
% Moisture		0.1	%	7.2	14
Heavy Metals (7)					
Arsenic		2	mg/kg	3.8	5.6
Cadmium		0.5	mg/kg	< 0.5	< 0.5
Chromium		5	mg/kg	16	16
Copper		5	mg/kg	20	19
Lead		5	mg/kg	75	66
Nickel		5	mg/kg	< 5	< 5
Zinc		5	mg/kg	140	87
Heavy Metals					
Mercury		0.1	mg/kg	0.1	0.2

Client Sample ID	CBH7 0-0.15	CBH7 0-0.15	CBH7 0-0.15	CBH7 D-0.15	Method Blank
Lab Number	08-MA07925	08-MA07925	08-MA07925	08-MA07925	Batch
QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008
Units			% RPD	% Recovery	mg/L
Analysis Type					
Organochlorine Pesticides					
4,4'-DDD	-	-	< 1	100	< 0.005
4,4'-DDE	-	-	< 1	97	< 0.005
4,4'-DDT	-	-	< 1	83	< 0.005
a-BHC	-	-	< 1	89	< 0.005
Aldrin	-	-	< 1	90	< 0.005
b-BHC	-	-	< 1	80	< 0.005
Chlordane	-	-	< 1	98	< 0.01
d-BHC	-	-	< 1	84	< 0.005
Dieldrin	-	-	< 1	107	< 0.005
Endosulfan I	-	-	< 1	106	< 0.005
Endosulfan II	-	-	< 1	105	< 0.005
Endosulfan sulphate	-	-	< 1	107	< 0.005
Endrin	-	-	< 1	102	< 0.005
Endrin aldehyde	-	-	< 1	99	< 0.005
Endrin ketone	-	-	< 1	86	< 0.005
g-BHC (Lindane)	-	-	< 1	94	< 0.005
Heptachlor	-	-	< 1	104	< 0.005
Heptachlor epoxide	-	-	< 1	108	< 0.005
Hexachlorobenzene	-	-	< 1	84	< 0.005
Methoxychlor	-	-	< 1	96	< 0.005
Toxophene	-	-	< 1	89	< 0.01
Dibutylchlorobenzene (sum.)	-	-	-	98	96
Tetrachloro-m-xylene (sum.)	-	-	-	104	100
Heavy Metals					
Mercury	< 0.1	< 0.1	< 1	71	< 0.005
Aroclor-1016	-	-	< 1	-	< 0.01
Aroclor-1221	-	-	< 1	-	< 0.01

COMMENTS:

Co"ey Geotechnics Pty Ltd Unit 1/222 Berkeley St Lindfield NSW 2526		Client Sample Lab Number	RPD BATCH	CBH7.0-0.15 08-MA07925	Method blank Batch
		OA Description		Spiked % Recovery	
		Matrix	Soil	Soil	Soil
		Sample Date	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008
Analysis Type		Units		% Recovery	mg/L
Aroclor-1232			< 1	-	< 0.01
Aroclor-1242			< 1	-	< 0.01
Aroclor-1248			< 1	-	< 0.01
Aroclor-1254			< 1	-	< 0.01
Aroclor-1260			< 1	-	< 0.01
Total PCB			< 1	93	< 0.1

COMMENTS

Client Sample ID	Lab Number	QA Description	Matrix	Sample Date	Units	CBH7 1.0-1.3	CBH7 1.0-1.3	CBH7 1.0-1.3	CBH7 1.0-1.3	Method blank
						08-MA07926	08-MA07926	08-MA07926	08-MA07926	Batch
						Duplicate	Duplicate	Spike % Recovery		
			Soil	Mar 12, 2008			Soil	% Recovery	Soil	Soil
				Mar 12, 2008			Mar 12, 2008	% RPD	Mar 12, 2008	Mar 12, 2008
								% RPD		mg/L
Analysis Type										
Total Recoverable Hydrocarbons										
TRH C6-C9 Fraction by GC						-		< 1	88	< 0.02
TRH C10-C14 Fraction by GC						< 50		< 1	71	< 0.05
TRH C15-C28 Fraction by GC						< 100		< 1	-	< 0.1
TRH C29-C36 Fraction by GC						< 100		< 1	-	< 0.1
Heavy Metals (7)										
Arsenic						-		2.5	77	< 0.05
Cadmium						-		< 1	80	< 0.02
Chromium						-		1.2	83	< 0.2
Copper						-		3.5	85	< 0.2
Lead						-		11	82	< 0.05
Nickel						-		3.5	87	< 0.2
Zinc						-		5.3	91	< 0.2

Colley Geotechnics Pty Ltd Unit 1/222 Berkeley St Manderra NSW 2526	Client Sample ID	RPD	CBH7 2.8-2.9	Method blank
	Lab Number	BATCH	08-MA07927	Batch
	QA Description		Spike % Recovery	
	Matrix	Soil	Soil	Soil
	Sample Date	Mar 12, 2008	Mar 12, 2008	Mar 12, 2008
Analyst's Type	Units		% Recovery	mg/L
Monocyclic Aromatic Hydrocarbons				
Benzene		< 1	80	< 0.005
Toluene		< 1	75	< 0.005
Ethylbenzene		< 1	75	< 0.005
Xylenes(ortho,meta and para)		< 1	75	< 0.005
Fluorobenzene (surr.)		-	108	93

COMMENTS:

Client Sample ID Unit 1/222 Berkeley St Inlandra NSW 2526		Lab Number QA	Batch BATCH	RPD Mar 13, 2008	CBH9 0-0.2 08-MA07930	Method blank Batch
		Description Matrix			Soils % Recovery Soil	Soil Mar 13, 2008
		Sample Date Units			% Recovery mg/L	mg/L Mar 13, 2008
Analysis Type						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene			< 1		103	< 0.02
Acenaphthylene			< 1		102	< 0.02
Anthracene			< 1		110	< 0.02
Benz(a)anthracene			< 1		102	< 0.02
Benzo(a)pyrene			< 1		106	< 0.02
Benzo(b)fluoranthene			< 1		111	< 0.02
Benzo(g,h,i)perylene			< 1		102	< 0.02
Benzo(k)fluoranthene			< 1		115	< 0.02
Chrysene			< 1		101	< 0.02
Dibenz(a,h)anthracene			< 1		104	< 0.02
Fluoranthene			< 1		113	< 0.02
Fluorene			< 1		104	< 0.02
Indeno(1,2,3-cd)pyrene			< 1		98	< 0.02
Naphthalene			< 1		99	< 0.02
Phenanthrene			< 1		137	< 0.02
Pyrene			< 1		98	< 0.02
Total PAH			-		-	< 0.02
Chrysene-d12 (sur.)			-		109	121
2-Fluorobiphenyl (sur.)			-		97	100

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 223797 Page 1 of 3
Order Number:
Date Received: Mar 19, 2008
Date Sampled: Mar 19, 2008
Date Reported: Mar 27, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

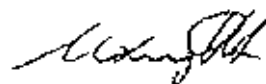
RPD : Relative Percent Difference

CRM : Certified Reference Material

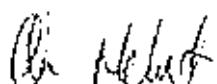
LCS : Laboratory Control Sample

Authorised

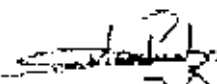
Report Number: 223797



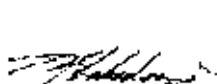
Michael Wright
Laboratory Manager
NATA Signatory



Onur Mehmet
Client Manager
NATA Signatory



Orlando Scatzo
Chief Organic Chemist
NATA Signatory



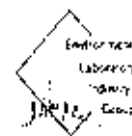
Tammy Lakeland
Chief Inorganic Chemist



NATA Accredited
Laboratory Number 1261

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ACCREDITATION



Metals



Environmental Consulting Pty. Ltd.

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Telephone: (03) 9564 7055
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Email: mgt@mgtenv.com.au

Coffey Geotechnics Pty Ltd		Client Sample ID	QC102
Unit 1/222 Berkeley St		Lab Number	08-MA08029
Unanderra		Matrix	Soil
NSW 2526		Sample Date	Mar 19, 2008
Analysis Type	LOR	Units	
Total Recoverable Hydrocarbons			
TRH C6-C9 Fraction by GC	20	mg/kg	< 20
TRH C10-C14 Fraction by GC	50	mg/kg	< 50
TRH C15-C28 Fraction by GC	100	mg/kg	< 100
TRH C29-C36 Fraction by GC	100	mg/kg	< 100
Monocyclic Aromatic Hydrocarbons			
Benzene	0.05	mg/kg	< 0.05
Toluene	0.05	mg/kg	< 0.05
Ethylbenzene	0.05	mg/kg	< 0.05
Xylenes(ortho,meta and para)	0.05	mg/kg	< 0.05
Fluorobenzene (surc.)	1	%	75
% Moisture	0.1	%	8.1
Heavy Metals (?)			
Arsenic	2	mg/kg	< 2
Cadmium	0.5	mg/kg	< 0.5
Chromium	5	mg/kg	22
Copper	5	mg/kg	8.5
Lead	5	mg/kg	18
Nickel	5	mg/kg	13
Zinc	5	mg/kg	29
Heavy Metals			
Mercury	0.1	mg/kg	< 0.1

COMMENTS:

Client Sample		QC102	QC102	QC102	QC102	Method blank
Lab Number	DA	08-MA08029	08-MA08029	08-MA08029	08-MA08029	Batch
Description	DA		Duplicate	Duplicate %	Spike %	
Malix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008
Units			% RPD	% Recovery	% Recovery	mg/L
Analysis Type						
Total Recoverable Hydrocarbons						
TRH C6-C9 Fraction by GC		< 20	< 0.05	< 1	88	< 0.02
TRH C10-C14 Fraction by GC		-	< 0.05	< 1	101	< 0.05
TRH C15-C28 Fraction by GC		-	< 0.05	< 1	-	< 0.1
TRH C29-C36 Fraction by GC		-	< 0.05	< 1	-	< 0.1
Monocyclic Aromatic Hydrocarbons						
Benzene		< 0.05	< 0.05	< 1	80	< 0.005
Toluene		< 0.05	< 0.05	< 1	75	< 0.005
Ethylbenzene		< 0.05	< 0.05	< 1	76	< 0.005
Xylenes(ortho,meta and para)		< 0.05	< 0.05	< 1	75	< 0.005
Fluorobenzene (surr.)		75	82	-	108	83
Heavy Metals (7)						
Arsenic		-	-	< 1	88	< 0.05
Cadmium		-	-	< 1	96	< 0.02
Chromium		22	-	-	86	< 0.2
Copper		-	-	18	96	< 0.2
Lead		-	-	< 1	86	< 0.05
Nickel		13	-	-	87	< 0.2
Zinc		-	-	17	88	< 0.2
Heavy Metals						
Mercury		-	-	< 1	71	< 0.005

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 224059 Page 1 of 14
Order Number:
Date Received: Mar 26, 2008
Date Sampled: Mar 17, 2008
Date Reported: Apr 3, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

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3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

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LOR : Limit of Reporting

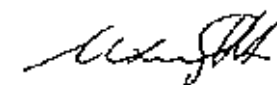
RPD : Relative Percent Difference

CRM : Certified Reference Material

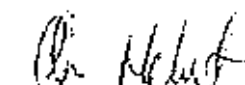
LCS : Laboratory Control Sample

Authorised

Report Number: 224059



Michael Wright
Laboratory Manager
NATA Signatory



Omar Mehmud
Client Manager
NATA Signatory



Orlando Sculzo
Chief Organic Chemist
NATA Signatory

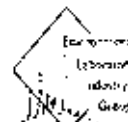


Tammy Lakeland
Chief Inorganic Chemist



ISO 17025
ACCREDITATION

NATA Accredited
Laboratory Number 1261
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Member



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Client Sample ID		CBH12_0.3-0.5	CBH12_1-1.25	CBH12_1.25-1.45	CBH12_2.5-2.9
Lab Number		08-MA10276	08-MA10277	08-MA10278	08-MA10279
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
LOR					
Units					
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C5-C9 Fraction by GC			< 20		
TRH C10-C14 Fraction by GC			< 50		
TRH C15-C28 Fraction by GC			< 100		
TRH C29-C36 Fraction by GC			< 100		
Monocyclic Aromatic Hydrocarbons					
Benzene		0.05	mg/kg	< 0.05	
Toluene		0.05	mg/kg	< 0.05	
Ethylbenzene		0.05	mg/kg	< 0.05	
Xylenes(ortho, meta and para)		0.05	mg/kg	< 0.05	
Fluorobenzene (surr.)		1	%	77	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		0.1	mg/kg	< 0.1	
Acenaphthylene		0.1	mg/kg	< 0.1	
Anthracene		0.1	mg/kg	< 0.1	
Benz(a)anthracene		0.1	mg/kg	< 0.1	
Benzo(a)pyrene		0.1	mg/kg	< 0.1	
Benzo(b)fluoranthene		0.1	mg/kg	< 0.1	
Benzo(g,h,i)perylene		0.1	mg/kg	< 0.1	
Benzo(k)fluoranthene		0.1	mg/kg	< 0.1	
Chrysene		0.1	mg/kg	< 0.1	
Dibenz(a,h)anthracene		0.1	mg/kg	< 0.1	
Fluoranthene		0.1	mg/kg	< 0.1	
Fluorene		0.1	mg/kg	< 0.1	
Indeno(1,2,3-cd)pyrene		0.1	mg/kg	< 0.1	
Naphthalene		0.1	mg/kg	< 0.1	
Phenanthrene		0.1	mg/kg	< 0.1	
Pyrene		0.1	mg/kg	< 0.1	
Total PAH		0.1	mg/kg	< 0.1	
Chrysene-d12 (surr.)		1	%	91	
2-Fluorobiphenyl (surr.)		1	%	84	

COMMENTS

Client Sample ID		CBH12_0.3-0.5	CBH12_1-1.25	CBH12_1.25-1.45	CBH12_2.5-2.9
Unit 1/222 Berkeley St		08-MA10276	08-MA10277	08-MA10278	08-MA10279
Unanderra		Soil	Soil	Soil	Soil
NSW 2526		Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
Analysis Type		Units			
Organochlorine Pesticides					
4,4'-DDO	0.05	mg/kg	-	-	< 0.05
4,4'-DDF	0.05	mg/kg	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05
Chlordane	0.1	mg/kg	-	-	< 0.1
d-BHC	0.05	mg/kg	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05
Toxophene	0.1	mg/kg	-	-	< 0.1
Dibutylchlorindate (surr.)	1	%	-	-	106
Tetrachloro-m-xylene (surr.)	1	%	-	-	119
% Moisture	0.1	%	15	17	17
Heavy Metals (7)	2	mg/kg	4.8	10	< 2
Arsenic	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID		CBH12_0.3-0.5	CBH12_1-1.25	CBH12_1.25-1.45	CBH12_2.5-2.9
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10276	08-MA10277	08-MA10278	08-MA10279
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
	LOR				
	Units				
Analysis Type					
Chromium	5	14	-	20	14
Copper	5	< 5		< 5	< 5
Lead	5	15	-	120	9.4
Nickel	5	< 5	-	< 5	< 5
Zinc	5	62	-	81	< 5
Heavy Metals					
Mercury	0.1	< 0.1	-	< 0.1	< 0.1

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Coffey Geotechnics Pty Ltd

Unit 1/277 Berkeley St

Unanderra

NSW 2526

Client Sample ID	CBH13_0.3-0.5	CBH13_1.0-1.06	CBH14_0.3-0.5	CBH14_1.1-1.45
Lab Number	08-MA10280	08-MA10261	08-MA10282	08-MA10283
Matrix	Soil	Soil	Soil	Soil
Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
LOR				
Units				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC	< 20	.	< 20	-
TRH C10-C14 Fraction by GC	< 50	-	< 50	.
TRH C15-C28 Fraction by GC	< 100	-	< 100	.
TRH C29-C36 Fraction by GC	< 100	.	< 100	-
Monocyclic Aromatic Hydrocarbons				
Benzene	0.05	.	< 0.05	-
Toluene	0.05	.	< 0.05	-
Ethylbenzene	0.05	.	< 0.05	-
Xylenes (ortho meta and para)	0.05	-	< 0.05	.
Fluorobenzene (sum)	1	-	73	.
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.1	.	< 0.1	< 0.1
Acenaphthylene	0.1	-	< 0.1	< 0.1
Anthracene	0.1	-	< 0.1	< 0.1
Benz(a)anthracene	0.1	-	< 0.1	< 0.1
Benzo(a)pyrene	0.1	-	< 0.1	< 0.1
Benzo(b)fluoranthene	0.1	-	< 0.1	< 0.1
Benzo(g,h,i)perylene	0.1	-	< 0.1	< 0.1
Benzo(k)fluoranthene	0.1	-	< 0.1	< 0.1
Chrysene	0.1	-	< 0.1	< 0.1
Dibenz(a,h)anthracene	0.1	-	< 0.1	< 0.1
Fluoranthene	0.1	-	< 0.1	< 0.1
Fluorene	0.1	-	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	-	< 0.1	< 0.1
Naphthalene	0.1	-	< 0.1	< 0.1
Phenanthrene	0.1	.	.	< 0.1
Pyrene	0.1	.	.	< 0.1
Total PAH	0.1	.	.	< 0.1
Chrysene-d12 (surf.)	.	.	.	92
2-Fluorobiphenyl (sum)	1	-	-	89

COMMENTS.



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Coffey Geotechnics Pty Ltd		Client Sample ID		CBH13_0.3-0.5	CBH13_1.0-1.06	CBH14_0.3-0.5	CBH14_1-1.45
Unit 1/222 Berkeley St		Lab Number		08-MA10280	08-MA10281	08-MA10282	08-MA10283
Unanderra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
Analysis Type		LOR	Units				
Organochlorine Pesticides							
4,4'-DDD		0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE		0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT		0.05	mg/kg	< 0.05	-	-	-
p-BHC		0.05	mg/kg	< 0.05	-	-	-
Aldrin		0.05	mg/kg	< 0.05	-	-	-
p-BHC		0.05	mg/kg	< 0.05	-	-	-
Chlordane		0.1	mg/kg	< 0.1	-	-	-
d-BHC		0.05	mg/kg	< 0.05	-	-	-
Dieldrin		0.05	mg/kg	< 0.05	-	-	-
Endosulfan I		0.05	mg/kg	< 0.05	-	-	-
Endosulfan II		0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate		0.05	mg/kg	< 0.05	-	-	-
Endrin		0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde		0.05	mg/kg	< 0.05	-	-	-
Endrin ketone		0.05	mg/kg	< 0.05	-	-	-
p-BHC (Lindane)		0.05	mg/kg	< 0.05	-	-	-
Heptachlor		0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide		0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene		0.05	mg/kg	< 0.05	-	-	-
Methoxychlor		0.05	mg/kg	< 0.05	-	-	-
Toxophene		0.1	mg/kg	< 0.1	-	-	-
Dibutylchloride (sum.)		1	%	98	-	-	-
Tetrachloro-m-xylene (sum.)		1	%	109	-	-	-
% Moisture		0.1	%	14	11	12	17
Heavy Metals (7)		2	mg/kg	2.6	2.1	-	3.5
Arsenic		0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Cadmium							

COMMENTS:

Client Sample ID		CBH13_0.3-0.5	CBH13_1.0-1.06	CBH14_0.3-0.5	CBH14_1-1.45
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10280	08-MA10281	08-MA10282	08-MA10283
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
	LOR				
	Units				
Analysis Type					
Chromium	5	21	19	-	19
Copper	5	< 5	< 5	-	6.5
Lead	5	14	13	-	19
Nickel	5	< 5	< 5	-	< 5
Zinc	5	7.9	< 5	-	< 5
Heavy Metals					
Mercury	0.1	< 0.1	< 0.1	-	< 0.1

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Client Sample ID		CBH14_2.5-2.65		QC108
Lab Number		08-MA10284		08-MA10285
Matrix		Soil		Soil
Sample Date		Mar 17, 2008		Mar 17, 2008
LOR		Units		
Analysis Type				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC		mg/kg		< 20
TRH C10-C14 Fraction by GC		mg/kg		< 50
TRH C15-C28 Fraction by GC		mg/kg		< 100
TRH C29-C36 Fraction by GC		mg/kg		< 100
Monocyclic Aromatic Hydrocarbons				
Benzene		mg/kg		< 0.05
Toluene		mg/kg		< 0.05
Ethylbenzene		mg/kg		< 0.05
Xylenes(ortho,meta and para)		mg/kg		< 0.05
Fluorobenzene (sur.)		%		76
Polycyclic Aromatic Hydrocarbons				
Acenaphthene		mg/kg		< 0.1
Acenaphthylene		mg/kg		< 0.1
Anthracene		mg/kg		< 0.1
Benz(a)anthracene		mg/kg		< 0.1
Benzo(a)pyrene		mg/kg		< 0.1
Benzo(b)fluoranthene		mg/kg		< 0.1
Benzo(g,h,i)perylene		mg/kg		< 0.1
Benzo(k)fluoranthene		mg/kg		< 0.1
Chrysene		mg/kg		< 0.1
Dibenz(a,h)anthracene		mg/kg		< 0.1
Fluoranthene		mg/kg		< 0.1
Fluorene		mg/kg		< 0.1
Indeno(1,2,3-cd)pyrene		mg/kg		< 0.1
Naphthalene		mg/kg		< 0.1
Phenanthrene		mg/kg		< 0.1
Pyrene		mg/kg		< 0.1
Total PAH		mg/kg		< 0.1
Chrysene-d12 (sur.)		%		82
2-Fluorobiphenyl (sur.)		%		72

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St

Unanderra

NSW 2526

Client Sample ID		CBH14_2.5-2.65		QC108
Coffey Geotechnics Pty Ltd		08-MA10284		08-MA10285
Unit 1/222 Berkeley St		Soil		Soil
Unanderra		Mar 17, 2008		Mar 17, 2008
NSW 2526				
Analysis Type	LOR	Units		
Organochlorine Pesticides				
4,4'-DDE	0.05	mg/kg		< 0.05
4,4'-DDE	0.05	mg/kg		< 0.05
4,4'-DDT	0.05	mg/kg		< 0.05
a-BHC	0.05	mg/kg		< 0.05
Aldrin	0.05	mg/kg		< 0.05
b-BHC	0.05	mg/kg		< 0.05
Chlordane	0.1	mg/kg		< 0.1
d-BHC	0.05	mg/kg		< 0.05
Dieldrin	0.05	mg/kg		< 0.05
Endosulfan I	0.05	mg/kg		< 0.05
Endosulfan II	0.05	mg/kg		< 0.05
Endosulfan sulphate	0.05	mg/kg		< 0.05
Endrin	0.05	mg/kg		< 0.05
Endrin aldehyde	0.05	mg/kg		< 0.05
Endrin ketone	0.05	mg/kg		< 0.05
g-BHC (Lindane)	0.05	mg/kg		< 0.05
Heptachlor	0.05	mg/kg		< 0.05
Heptachlor epoxide	0.05	mg/kg		< 0.05
Hexachlorobenzene	0.05	mg/kg		< 0.05
Methoxychlor	0.1	mg/kg		< 0.1
Toxophene	1	%		93
Dibutyltinolendate (sum.)	1	%		106
Tetrachloro-m-xylene (sum.)				
% Moisture	0.1	%	17	10
Heavy Metals (7)				
Arsenic	2	mg/kg	2.8	< 2
Cadmium	0.5	mg/kg	< 0.5	< 0.5

COMMENTS:

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID		GBH14_2.5-2.65		QC108
	Lab Number		08-MA10284		08-MA10285
	Matrix		Soil		Soil
	Sample Date		Mar 17, 2008		Mar 17, 2008
	LOR		Units		
Analysis Type					
Chromium	5		mg/kg		30
Copper	5		mg/kg		13
Lead	5		mg/kg		18
Nickel	5		mg/kg		19
Zinc	5		mg/kg		13
Heavy Metals					
Mercury	0.1		mg/kg		< 0.1

Colley Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID	RPD	CBH12_0.3-0.5	Method blank
	Lab Number	BATCH	08-MA1D276	Batch
	QA Description		Spike % Recovery	
	Matrix	Soil	Soil	Soil
	Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
Analysis Type	Units		% Recovery	mg/L
Heavy Metals (7)				
Arsenic		< 1	75	< 0.05
Cadmium		< 1	80	< 0.02
Chromium		3.5	-	< 0.2
Copper		3.1	87	< 0.2
Lead		< 1	78	< 0.05
Nickel		6.2	-	< 0.2
Zinc		3.3	-	< 0.2

Coffey Geotechnics Pty Ltd		Client Sample	RPD	C6H12_1-1.25	Method Blank
Unit 1/222 Berkeley St		Lab Number	BATCH	D8-MA10277	Batch
Unanterra		QA Description		Spike % Recovery	
NSW 2526		Matrix	Soil	Soil	Soil
		Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
		Units		% Recovery	mg/L
Analysis Type					
Total Recoverable Hydrocarbons			< 1	88	< 0.02
TRH C6-C9 Fraction by GC			< 1	109	< 0.05
TRH C10-C14 Fraction by GC			< 1	-	< 0.1
TRH C15-C28 Fraction by GC			< 1	-	< 0.1
Monocyclic Aromatic Hydrocarbons					
Benzene			< 1	88	< 0.005
Toluene			< 1	86	< 0.005
Ethylbenzene			< 1	84	< 0.005
Xylenes(ortho,meta and para)			< 1	92	< 0.005
Fluorobenzene (surr.)			-	77	79

Coffee Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID	RPD	CBH12_1.25-1, 45	Method blank
	Lab Number	BATCH	08-MA10278	Batch
	QA Description		Spike % Recovery	
	Matrix	Soil	Soil	Soil
	Sample Date	Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
Analysis Type	Units		% Recovery	mg/L
Polycyclic Aromatic Hydrocarbons				
Acenaphthene		< 1	97	< 0.02
Acenaphthylene		< 1	95	< 0.02
Anthracene		< 1	101	< 0.02
Benz(a)anthracene		< 1	124	< 0.02
Benzo(a)pyrene		< 1	96	< 0.02
Benzo(b)fluoranthene		< 1	103	< 0.02
Benzo(g,h,i)perylene		< 1	111	< 0.02
Benzo(k)fluoranthene		< 1	96	< 0.02
Chrysene		< 1	124	< 0.02
Dibenz(a,h)anthracene		< 1	124	< 0.02
Fluoranthene		< 1	102	< 0.02
Fluorene		< 1	96	< 0.02
Indeno(1,2,3-cd)pyrene		< 1	115	< 0.02
Naphthalene		< 1	99	< 0.02
Phenanthrene		< 1	92	< 0.02
Pyrene		< 1	96	< 0.02
Total PAH		-	-	< 0.02
Chrysene-d12 (sur)		-	118	92
2-Fluorobiphenyl (sur)		-	91	83

COMMENTS:

Client Sample ID		RPD	CBH12_2.5-2.9	Method blank
Lab Number		BATCH	08-MA10279	Batch
QA Description			Spike %	
Matrix		Soil	Soil	Soil
Sample Date		Mar 17, 2008	Mar 17, 2008	Mar 17, 2008
Units			% Recovery	mg/L
Analysis Type				
Organochlorine Pesticides				
4,4'-DDD		< 1	120	< 0.005
4,4'-DDE		< 1	123	< 0.005
4,4'-DUT		< 1	115	< 0.005
p-BHC		< 1	101	< 0.005
Aldrin		< 1	93	< 0.005
b-BHC		< 1	92	< 0.005
Chlordane		< 1	96	< 0.01
d-BHC		< 1	106	< 0.005
Dieldrin		< 1	123	< 0.005
Endosulfan I		< 1	114	< 0.005
Endosulfan II		< 1	112	< 0.005
Endosulfan sulphate		< 1	118	< 0.005
Endrin		< 1	122	< 0.005
Endrin aldehyde		< 1	112	< 0.005
Endrin ketone		< 1	106	< 0.005
g-BHC (Lindane)		< 1	101	< 0.005
Heptachlor		< 1	116	< 0.005
Heptachlor epoxide		< 1	118	< 0.005
Hexachlorobenzene		< 1	97	< 0.005
Methoxychlor		< 1	76	< 0.005
Toxophene		< 1	89	< 0.01
Dibutylchloride (sur.)		.	98	77
Tetrachloro-m-xylene (sur.)		.	104	58
Heavy Metals				
Mercury		13	74	< 0.005

COMMENTS:



Sample Receipt Advice

Company name: Coffey Geotechnics Pty Ltd UNAN
Contact name: Daniel Deen
Client job number: GL23462AA
COC number: 13845
Turn around time: Five day
Date received: Mar 27, 2008
MGT lab reference: 224059

Sample information

- ☒ All samples have been received as described on the above COC
- ☒ COC has been completed correctly.
- ☒ All samples were provided chilled.
- ☒ 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.

Contact notes

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

Onur Mehmet on the above number or by e.mail: mehmeto@mgtenv.com.au

Results will be delivered electronically via e.mail to Daniel Deen - daniel_deen@coffey.com.

mgt Sample Receipt

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 224126 Page 1 of 21
Order Number:
Date Received: Mar 27, 2008
Date Sampled: Mar 18, 2008
Date Reported: Apr 3, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Asbestos = ASET Ref No 14776 / 17956 / 1-4 NATA Accreditation No. 14484

Notes

1. The results in this report supersede any previously corresponded results
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 224126

Michael Wright
Laboratory Manager
NATA Signatory

Omar Mehmet
Client Manager
NATA Signatory

Orlando Seabra
Chief Organic Chemist
NATA Signatory

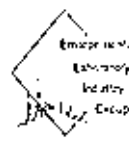
Tammy Lakeland
Chief Inorganic Chemist

NATA

NATA Accredited
Laboratory Number: 1264

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ACCREDITATION



Member



Environmental Consulting Pty. Ltd.

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Client Sample ID		CBH15 0.3-0.5	CBH15 1.0-1.45	CBH16 0.1-0.2	CBH16 1.3-1.15
Lab Number		08-MA10663	08-MA10664	08-MA10665	08-MA10666
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
LOR					
Units					
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC		< 20		< 20	< 20
TRH C10-C14 Fraction by GC		< 50		< 50	< 50
TRH C15-C28 Fraction by GC		< 100		< 100	< 100
TRH C29-C36 Fraction by GC		< 100		< 100	< 100
Monocyclic Aromatic Hydrocarbons					
Benzene		< 0.05		< 0.05	< 0.05
Toluene		< 0.05		< 0.05	< 0.05
Ethylbenzene		< 0.05		< 0.05	< 0.05
Xylenes(ortho,meta and para)		< 0.05		< 0.05	< 0.05
Fluorobenzene (surr.)		79		65	68
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene		< 0.1	< 0.1	< 0.1	< 0.1
Anthracene		< 0.1	< 0.1	< 0.1	< 0.1
Benz(a)anthracene		< 0.1	< 0.1	< 0.1	< 0.1
Benz(a)pyrene		< 0.1	< 0.1	< 0.1	< 0.1
Benz(b)fluoranthene		< 0.1	< 0.1	< 0.1	< 0.1
Benz(g,h,i)perylene		< 0.1	< 0.1	< 0.1	< 0.1
Benz(k)fluoranthene		< 0.1	< 0.1	< 0.1	< 0.1
Chrysene		< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene		< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene		< 0.1	< 0.1	< 0.1	< 0.1
Fluorene		< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene		< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene		< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene		< 0.1	< 0.1	< 0.1	< 0.1
Pyrene		< 0.1	< 0.1	< 0.1	< 0.1
Total PAH		< 0.1	< 0.1	< 0.1	< 0.1
Chrysene-d12 (surr.)		94	94	97	108
2 Fluorobiphenyl (surr.)		1	72	92	76

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID		CBH15 0.3-0.5		CBH15 1.0-1.45		CBH15 0.1-0.2		CBH16 1.3-1.15	
Unit 1/222 Berkeley St		Lab Number		08-MA10663		08-MA10664		08-MA10665		08-MA10666	
Unanderra		Matrix		Soil		Soil		Soil		Soil	
NSW 2526		Sample Date		Mar 18, 2008		Mar 18, 2008		Mar 18, 2008		Mar 18, 2008	
Analysis Type		LOR		Units							
Organochlorine Pesticides											
4,4'-DDD		0.05		mg/kg				< 0.05			
4,4'-DDE		0.05		mg/kg				< 0.05			
4,4'-DDT		0.05		mg/kg				< 0.05			
a-BHC		0.05		mg/kg				< 0.05			
Aldrin		0.05		mg/kg				< 0.05			
b-BHC		0.05		mg/kg				< 0.05			
Chlordane		0.1		mg/kg				< 0.1			
d-BHC		0.05		mg/kg				< 0.05			
Dieldrin		0.05		mg/kg				< 0.05			
Endosulfan I		0.05		mg/kg				< 0.05			
Endosulfan II		0.05		mg/kg				< 0.05			
Endosulfan sulphate		0.05		mg/kg				< 0.05			
Endrin		0.05		mg/kg				< 0.05			
Endrin aldehyde		0.05		mg/kg				< 0.05			
Endrin ketone		0.05		mg/kg				< 0.05			
g-BHC (Lindane)		0.05		mg/kg				< 0.05			
Heptachlor		0.05		mg/kg				< 0.05			
Heptachlor epoxide		0.05		mg/kg				< 0.05			
Hexachlorobenzene		0.05		mg/kg				< 0.05			
Methoxychlor		0.05		mg/kg				< 0.05			
Toxophene		0.1		mg/kg				< 0.1			
Dibutylchloride (surr.)		1		%				102			
Tetrachloro-m-xylene (surr.)		1		%				111			
Polychlorinated Biphenyls											
Aroclor-1016		0.1		mg/kg				< 0.1			
Aroclor-1221		0.1		mg/kg				< 0.1			
Aroclor-1232		0.1		mg/kg				< 0.1			
Aroclor-1242		0.1		mg/kg				< 0.1			

Client Sample ID		CBH15 0.3-0.5	CBH15 1.0-1.45	CBH15 0.1-0.2	CBH16 1.3-1.15
Coffey Geotechnics Pty Ltd					
Unit 1/222 Berkeley St					
Unanderra					
NSW 2526					
Analysis Type	LOR	Units			
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-
Total PCB	1	mg/kg	< 1	< 1	-
Dibutylchlorodate (surr.)	1	%	94	102	-
Tetrachloro-m-xylene (surr.)	1	%	105	111	-
% Moisture	0.1	%	9.9	10	11
Asbestos				Not detected	
Heavy Metals (7)					
Arsenic	2	mg/kg	< 2	2.4	2.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	12	7.4	20
Copper	5	mg/kg	< 5	< 5	11
Lead	5	mg/kg	13	7.6	29
Nickel	5	mg/kg	< 5	< 5	8.3
Zinc	5	mg/kg	16	8.7	31
Heavy Metals					
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St

Unanderra

NSW 2526

Client Sample ID	CBH16 2.6-2.75	CBH16 4.25-4.39	CBH17 0.2-0.3	CBH17 0.4-0.5
Lab Number	08-MA10674	08-MA10675	08-MA10676	08-MA10677
Matrix	Soil	Soil	Soil	Soil
Sample Date	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
LOR	Units			
Analysis Type				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC	< 20	< 20		< 20
TRH C10-C14 Fraction by GC	< 50	< 50		< 50
TRH C15-C28 Fraction by GC	< 100	< 100		< 100
TRH C29-C36 Fraction by GC	< 100	< 100		< 100
Monocyclic Aromatic Hydrocarbons				
Benzene	< 0.05	< 0.05		< 0.05
Toluene	< 0.05	< 0.05		< 0.05
Ethylbenzene	< 0.05	< 0.05		< 0.05
Xylenes(ortho meta and para)	< 0.05	< 0.05		< 0.05
Fluorobenzene (sum.)	71	81		84
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	< 0.1	< 0.1		
Acenaphthylene	< 0.1	< 0.1		
Anthracene	< 0.1	< 0.1		
Benz(a)anthracene	< 0.1	< 0.1		
Benzo(a)pyrene	< 0.1	< 0.1		
Benzo(b)fluoranthene	< 0.1	< 0.1		
Benzo(g,h,i)perylene	< 0.1	< 0.1		
Benzo(k)fluoranthene	< 0.1	< 0.1		
Chrysene	< 0.1	< 0.1		
Dibenz(a,h)anthracene	< 0.1	< 0.1		
Fluoranthene	< 0.1	< 0.1		
Fluorene	< 0.1	< 0.1		
Indeno(1,2,3-cd)pyrene	< 0.1	< 0.1		
Naphthalene	< 0.1	< 0.1		
Phenanthrene	< 0.1	< 0.1		
Pyrene	< 0.1	< 0.1		
Total PAH	< 0.1	< 0.1		
Chrysene-d12 (sum.)	109	122		
2-Fluorobiphenyl (sum.)	96	87		

COMMENTS:

Client Sample ID		CBH16 2.6-2.75		CBH16 4.25-4.39		CBH17 0.2-0.3		CBH17 0.4-0.5	
Lab Number		08-MA10674		08-MA10675		08-MA10676		08-MA10677	
Matrix		Soil		Soil		Soil		Soil	
Sample Date		Mar 18, 2008		Mar 18, 2008		Mar 18, 2008		Mar 18, 2008	
LOR									
Units									
Analysis Type									
Organochlorine Pesticides									
4,4'-DDE		0.05		mg/kg		< 0.05		-	
4,4'-DDD		0.05		mg/kg		< 0.05		-	
4,4'-DDT		0.05		mg/kg		< 0.05		-	
a-BHC		0.05		mg/kg		< 0.05		-	
b-BHC		0.05		mg/kg		< 0.05		-	
Chlordane		0.1		mg/kg		< 0.1		-	
d-BHC		0.05		mg/kg		< 0.05		-	
Dieldrin		0.05		mg/kg		< 0.05		-	
Endosulfan I		0.05		mg/kg		< 0.05		-	
Endosulfan II		0.05		mg/kg		< 0.05		-	
Endosulfan sulphate		0.05		mg/kg		< 0.05		-	
Endrin		0.05		mg/kg		< 0.05		-	
Endrin aldehyde		0.05		mg/kg		< 0.05		-	
Endrin ketone		0.05		mg/kg		< 0.05		-	
g-BHC (Lindane)		0.05		mg/kg		< 0.05		-	
Heptachlor		0.05		mg/kg		< 0.05		-	
Heptachlor epoxide		0.05		mg/kg		< 0.05		-	
Hexachlorobenzene		0.05		mg/kg		< 0.05		-	
Methoxychlor		0.05		mg/kg		< 0.05		-	
Toxophene		0.1		mg/kg		< 0.1		-	
Dibutylchloride (surr.)		1		%		112		-	
Tetrachloro-m-xylene (surr.)		1		%		119		-	
Moisture		0.1		%		12		7.5	
Heavy Metals (7)		2		mg/kg		23		< 2	
Arsenic		0.5		mg/kg		< 0.5		< 0.5	
Cadmium		0.5		mg/kg		< 0.5		< 0.5	

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Coffey Geotechnics Pty Ltd		Client Sample ID	CBH16 2.6-2.75	CBH16 4.25-4.39	CBH17 0.2-0.3	CBH17 0.4-0.5
Unit 1/222 Berkeley St		Lab Number	08-MA10674	08-MA10675	08-MA10676	08-MA10677
Unanderra		Matrix	Soil	Soil	Soil	Soil
NSW 2526		Sample Date	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
Analysis Type		Units				
Chromium		mg/kg	22	19	40	-
Copper		mg/kg	67	< 5	40	-
Lead		mg/kg	17	22	78	-
Nickel		mg/kg	< 5	< 5	36	-
Zinc		mg/kg	16	29	19	-
Heavy Metals						
Mercury		mg/kg	< 0.1	< 0.1	< 0.1	

Coffey Geotechnics Pty Ltd

Client Sample ID		CBH17 2.7-2.95	CBH18 0.3-0.5	CBH18 1.2-1.3	CBH18 1.3-1.45
Unit 1/222 Berkeley St		08-MA10678	08-MA10679	08-MA10680	08-MA10681
Unanderra		Soil	Soil	Soil	Soil
NSW 2526		Mar 18, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008
Analysis Type		Units			
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC		20	< 20	-	-
TRH C10-C14 Fraction by GC		50	< 50	-	-
TRH C15-C28 Fraction by GC		100	< 100	-	-
TRH C29-C36 Fraction by GC		100	< 100	-	-
Monocyclic Aromatic Hydrocarbons					
Benzene		0.05	mg/kg	< 0.05	-
Toluene		0.05	mg/kg	< 0.05	-
Ethylbenzene		0.05	mg/kg	< 0.05	-
Xylenes (ortho meta and para)		0.05	mg/kg	< 0.05	-
Fluorobenzene (sur.)		1	%	58	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene		0.1	mg/kg	< 0.1	< 0.1
Acenaphthylene		0.1	mg/kg	< 0.1	< 0.1
Anthracene		0.1	mg/kg	< 0.1	< 0.1
Benz(a)anthracene		0.1	mg/kg	< 0.1	< 0.1
Benz(a)pyrene		0.1	mg/kg	< 0.1	< 0.1
Benz(b)fluoranthene		0.1	mg/kg	0.1	< 0.1
Benz(g,h,i)perylene		0.1	mg/kg	< 0.1	< 0.1
Benz(k)fluoranthene		0.1	mg/kg	< 0.1	< 0.1
Chrysene		0.1	mg/kg	< 0.1	< 0.1
Dibenz(a,h)anthracene		0.1	mg/kg	< 0.1	< 0.1
Fluoranthene		0.1	mg/kg	0.2	< 0.1
Fluorene		0.1	mg/kg	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene		0.1	mg/kg	< 0.1	< 0.1
Naphthalene		0.1	mg/kg	< 0.1	< 0.1
Phenanthrene		0.1	mg/kg	0.1	< 0.1
Pyrene		0.1	mg/kg	0.2	< 0.1
Total PAH		1	mg/kg	101	115
Chrysene-d12 (sur.)		1	%	88	94
2-Fluorobiphenyl (sur.)		1	%	90	94

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID		CBH17 2.7-2.95	CBH18 0.3-0.5	CBH18 1.2-1.3	CBH18 1.3-1.45
Unit 1/222 Berkeley St		Lab Number		08-MA10678	08-MA10679	08-MA10680	08-MA10681
Unanderra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Mar 18, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008
Analysis Type	LOR	Units					
% Moisture	0.1	%		9.7	12	11	15
Asbestos						Not detected	
Heavy Metals (7)							
Arsenic	2	mg/kg		< 2	< 2	-	< 2
Cadmium	0.5	mg/kg		< 0.5	< 0.5	-	< 0.5
Chromium	5	mg/kg		17	20	-	25
Copper	5	mg/kg		< 5	15	-	12
Lead	5	mg/kg		6.4	32	-	16
Nickel	5	mg/kg		< 5	9.9	-	20
Zinc	5	mg/kg		< 5	39	-	18
Heavy Metals							
Mercury	0.1	mg/kg		< 0.1	< 0.1	-	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St

Unanderra

NSW 2526

Analysis Type	Client Sample ID	Units	CBH18 2.6-2.95	CBH18 4.1-4.45	CBH18 5.6-5.95	CBH19 0.3-0.5
Total Recoverable Hydrocarbons	Lab Number		08-MA10682	08-MA10683	08-MA10684	08-MA10685
TRH C6-C9 Fraction by GC	Matrix		Soil	Soil	Soil	Soil
TRH C10-C14 Fraction by GC	Sample Date		Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 20, 2008
TRH C15-C28 Fraction by GC	LOR					
TRH C29-C36 Fraction by GC						
Monocyclic Aromatic Hydrocarbons						
Benzene	0.05	mg/kg	< 0.05		< 0.05	
Toluene	0.05	mg/kg	< 0.05		< 0.05	
Ethylbenzene	0.05	mg/kg	< 0.05		< 0.05	
Xylenes(ortho,meta and para)	0.05	mg/kg	< 0.05		< 0.05	
Fluorobenzene (surr)	1	%	82		72	
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Acenaphthylene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Anthracene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Chrysene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Fluoranthene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Fluorene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Naphthalene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Phenanthrene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Pyrene	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Total PAH	0.1	mg/kg		< 0.1	< 0.1	< 0.1
Chrysene-d12 (surr.)	1	%		110	103	< 2
2-Fluorobiphenyl (surr)	1	%		87	92	89

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID	CBH15 2.6-2.95	CBH18 4.1-4.45	CBH18 5.6-5.95	CBH19 0.3-0.5
Unit 1/222 Berkeley St		Lab Number	08-MA10682	08-MA10683	08-MA10684	08-MA10685
Unanderra		Matrix	Soil	Soil	Soil	Soil
NSW 2526		Sample Date	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 20, 2008
Analysis Type	LOR	Units				
% Moisture	0.1	%	16	18	22	11
Asbestos						Not detected
Heavy Metals (7)						
Arsenic	2	mg/kg	-	2.7	<2	2.5
Cadmium	0.5	mg/kg	-	<0.5	<0.5	<0.5
Chromium	5	mg/kg	-	13	12	16
Copper	5	mg/kg	-	13	5.1	<5
Lead	5	mg/kg	-	27	21	13
Nickel	5	mg/kg	-	5.7	<5	6.3
Zinc	5	mg/kg	-	21	22	25
Heavy Metals						
Mercury	0.1	mg/kg	-	<0.1	<0.1	<0.1

Cooley Geotechnics Pty Ltd

Unit 1/222 Berkeley St

Unanderra

NSW 2526

Client Sample ID	CBH19 1.1-1.45	QC114	CBH20 0.3-0.5	CBH20 2.6-2.95
Lab Number	08-MA10686	08-MA10687	08-MA10688	08-MA10689
Matrix	Soil	Soil	Soil	Soil
Sample Date	Mar 20, 2008	Mar 20, 2008	Mar 20, 2008	Mar 20, 2008
LOR				
Analysis Type	Units			
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC	mg/kg			< 20
TRH C10-C14 Fraction by GC	mg/kg			< 50
TRH C15-C28 Fraction by GC	mg/kg			< 100
TRH C29-C36 Fraction by GC	mg/kg			< 100
Monocyclic Aromatic Hydrocarbons				
Benzene	mg/kg			< 0.05
Toluene	mg/kg			< 0.05
Ethylbenzene	mg/kg			< 0.05
Xylenes(ortho,meta and para)	mg/kg			< 0.05
Fluorobenzene (sur.)	%			73
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	mg/kg			< 0.1
Acenaphthylene	mg/kg			< 0.1
Anthracene	mg/kg			< 0.1
Benz(a)anthracene	mg/kg			< 0.1
Benz(a)pyrene	mg/kg			< 0.1
Benzo(b)fluoranthene	mg/kg			< 0.1
Benzo(g,h,i)perylene	mg/kg			< 0.1
Benzo(k)fluoranthene	mg/kg			< 0.1
Chrysene	mg/kg			< 0.1
Dibenz(a,h)anthracene	mg/kg			< 0.1
Fluoranthene	mg/kg			< 0.1
Fluorene	mg/kg			< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg			< 0.1
Naphthalene	mg/kg			< 0.1
Phenanthrene	mg/kg			< 0.1
Pyrene	mg/kg			< 0.1
Total PAH	mg/kg			109
Chrysene-d12 (sur.)	%			93
2-Fluorobiphenyl (sur.)	%			92

Coffey Geotechnics Pty Ltd		Client Sample ID		CBH19 1.1-1.45	QC114	CBH20 0.3-0.5	CBH20 2.6-2.95
Unit 1222 Berkeley St		Lab Number		08-MA10686	08-MA10687	08-MA10688	08-MA10689
Unanderra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Mar 20, 2008	Mar 20, 2008	Mar 20, 2008	Mar 20, 2008
Analysis Type		LOR	Units				
% Moisture		0.1	%	11	9.9	15	15
Asbestos				-	-	-	Not detected
Heavy Metals (7)							
Arsenic		2	mg/kg	< 2	< 2	3.2	< 2
Cadmium		0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium		5	mg/kg	9.0	10	15	20
Copper		5	mg/kg	< 5	< 5	20	15
Lead		5	mg/kg	8.1	7.0	44	24
Nickel		5	mg/kg	< 5	< 5	6.2	< 5
Zinc		5	mg/kg	7.3	< 5	49	25
Heavy Metals							
Mercury		0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St Unanderra NSW 2526		Client Sample ID		CBH20 4.1-4.5		CBH20 6.7-6.8		QC110	
Matrix		Lab Number		08-MA10690		08-MA10691		08-MA10692	
Sample Date		Matrix		Soil		Soil		Soil	
LOR		Sample Date		Mar 20, 2006		Mar 20, 2008		Mar 19, 2006	
Analysis Type		Units							
Total Recoverable Hydrocarbons									
TRH C6-C9 Fraction by GC		20		mg/kg		< 20		< 20	
TRH C10-C14 Fraction by GC		50		mg/kg		< 50		< 50	
TRH C15-C28 Fraction by GC		100		mg/kg		< 100		< 100	
TRH C29-C36 Fraction by GC		100		mg/kg		< 100		< 100	
Monocyclic Aromatic Hydrocarbons									
Benzene		0.05		mg/kg		< 0.05		< 0.05	
Toluene		0.05		mg/kg		< 0.05		< 0.05	
p-Tolylbenzene		0.05		mg/kg		< 0.05		< 0.05	
Xylenes (ortho, meta and para)		0.05		mg/kg		< 0.05		< 0.05	
Fluorobenzene (sum.)		1		%		79		62	
Polycyclic Aromatic Hydrocarbons									
Acenaphthene		0.1		mg/kg		< 0.1		.	
Acenaphthylene		0.1		mg/kg		< 0.1		.	
Anthracene		0.1		mg/kg		< 0.1		.	
Benz(a)anthracene		0.1		mg/kg		< 0.1		.	
Benz(a)pyrene		0.1		mg/kg		< 0.1		.	
Benz(b)fluoranthene		0.1		mg/kg		< 0.1		.	
Benz(g,h,i)perylene		0.1		mg/kg		< 0.1		.	
Benz(k)fluoranthene		0.1		mg/kg		< 0.1		.	
Chrysene		0.1		mg/kg		< 0.1		.	
Dibenz(a,h)anthracene		0.1		mg/kg		< 0.1		.	
Fluoranthene		0.1		mg/kg		< 0.1		.	
Fluorene		0.1		mg/kg		< 0.1		.	
Indeno(1,2,3-cd)pyrene		0.1		mg/kg		< 0.1		.	
Naphthalene		0.1		mg/kg		< 0.1		.	
Phenanthrene		0.1		mg/kg		< 0.1		.	
Pyrene		0.1		mg/kg		< 0.1		.	
Total PAH		0.1		mg/kg		< 0.1		.	
Chrysene-d12 (sum.)		1		%		114		.	
2-Fluorobiphenyl (sum.)		.		%		97		.	

Client Sample ID		CBH20 4.1-4.45	CBH20 674-6.8	QC110
Lab Number		08-MA10690	08-MA10691	08-MA10692
Matrix		Soil	Soil	Soil
Sample Date		Mar 20, 2008	Mar 20, 2008	Mar 19, 2008
LOR				
Units				
Analysis Type				
% Moisture		13	23	1.0
Heavy Metals (7)				
Arsenic		< 2	< 2	< 2
Cadmium		< 0.5	< 0.5	< 0.5
Chromium		18	16	37
Copper		< 5	< 5	12
Lead		21	9.4	8.3
Nickel		8.3	< 5	28
Zinc		66	< 5	17
Heavy Metals				
Mercury		< 0.1	< 0.1	< 0.1

Client Sample ID		CBH15 0.3-0.5	CBH15 0.3-0.5	CBH15 0.3-0.5	CBH15 0.3-0.5	Method blank
Lab Number	08-MA10663	08-MA10663	08-MA10663	08-MA10663	08-MA10663	Batch
QA Description		Duplicate	Duplicate % RPD	Duplicate % RPD	Spike % Recovery	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
Units			% RPD	% RPD	% Recovery	mg/L
Analysis Type						
Total Recoverable Hydrocarbons		< 50	< 50	< 1	107	
TRH C10-C14 Fraction by GC		< 100	< 100	< 1	-	
TRH C15-C28 Fraction by GC		< 100	< 100	< 1	-	
TRH C29-C36 Fraction by GC						
Monocyclic Aromatic Hydrocarbons						
Benzene		< 0.05	< 0.05	< 1	81	< 0.005
Toluene		< 0.05	< 0.05	< 1	77	< 0.005
Ethylbenzene		< 0.05	< 0.05	< 1	77	< 0.005
Xylenes (ortho, meta and para)		< 0.05	< 0.05	< 1	94	< 0.005
Fluorobenzene (surr.)		79	89	-	88	111
Heavy Metals (7)						
Arsenic		< 2	< 2	< 1	78	< 0.05
Cadmium		< 0.5	< 0.5	< 1	83	< 0.02
Chromium		12	14	16	81	< 0.2
Copper		< 5	< 5	< 1	89	< 0.2
Lead		13	13	3.3	80	< 0.05
Nickel		< 5	< 5	< 1	77	< 0.2
Zinc		16	14	5.7	78	< 0.2
Heavy Metals						
Mercury		< 0.1	< 0.1	1.1	-	-

Client Sample ID		CBH15 1.0-1.45	CBH15 1.0-1.45	CBH15 1.0-1.45	CBH15 1.0-1.45	Method blank
Lab Number		08-MA10654	08-MA10654	08-MA10654	08-MA10654	Batch
OA Description			Duplicate	Duplicate %	Spike % Recovery	
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Date		Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
Units				% RPD	% Recovery	mg/L
Analysis Type						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene		< 0.1	< 0.1	< 1	104	< 0.02
Acenaphthylene		< 0.1	< 0.1	< 1	92	< 0.02
Anthracene		< 0.1	< 0.1	< 1	96	< 0.02
Benz(a)anthracene		< 0.1	< 0.1	< 1	124	< 0.02
Benz(a)pyrene		< 0.1	< 0.1	< 1	120	< 0.02
Benzo(b)fluoranthene		< 0.1	< 0.1	< 1	110	< 0.02
Benzo(g,h,i)perylene		< 0.1	< 0.1	< 1	124	< 0.02
Benzo(k)fluoranthene		< 0.1	< 0.1	< 1	114	< 0.02
Chrysene		< 0.1	< 0.1	< 1	121	< 0.02
Dibenz(a,h)anthracene		< 0.1	< 0.1	< 1	112	< 0.02
Fluoranthene		< 0.1	< 0.1	< 1	106	< 0.02
Fluorone		< 0.1	< 0.1	< 1	100	< 0.02
Indeno(1,2,3-cd)pyrene		< 0.1	< 0.1	< 1	129	< 0.02
Naphthalene		< 0.1	< 0.1	< 1	93	< 0.02
Phenanthrene		< 0.1	< 0.1	< 1	102	< 0.02
Pyrene		< 0.1	< 0.1	< 1	113	< 0.02
Total PAH		94	103	-	136	96
Chrysene-412 (surr.)		72	99	-	101	89
2-Fluorodiphenyl (surr.)						

Client Sample ID		RPD	CBH16 0.1-0.2	Method blank
Lab Number	BATCH		08-MA10565	Batch
QA Description			Spike % Recovery	
Matrix	Soil		Soil	Soil
Sample Date	Mar 18, 2008		Mar 18, 2008	Mar 18, 2008
Units			% Recovery	mg/L
Analysis Type				
Organochlorine Pesticides				
4,4'-DDD	< 1		120	< 0.005
4,4'-DDE	< 1		123	< 0.005
4,4'-DDT	< 1		115	< 0.005
α-BHC	< 1		101	< 0.005
Aldrin	< 1		93	< 0.005
γ-BHC	< 1		92	< 0.005
Chlordane	< 1		98	< 0.01
δ-BHC	< 1		106	< 0.005
Dieldrin	< 1		122	< 0.005
Endosulfan I	< 1		114	< 0.005
Endosulfan II	< 1		114	< 0.005
Endosulfan sulphate	< 1		118	< 0.005
Endrin	< 1		122	< 0.005
Endrin aldehyde	< 1		112	< 0.005
Endrin ketone	< 1		106	< 0.005
γ-BHC (Lindane)	< 1		101	< 0.005
Heptachlor	< 1		116	< 0.005
Heptachlor epoxide	< 1		118	< 0.005
Hexachlorobenzene	< 1		97	< 0.005
Methoxychlor	< 1		76	< 0.005
Toxophene	< 1		89	< 0.01
Polychlorinated Biphenyls				
Aroclor-1016	< 1		-	< 0.01
Aroclor-1221	< 1		-	< 0.01
Aroclor-1232	< 1		-	< 0.01
Aroclor-1242	< 1		-	< 0.01
Aroclor-1248	< 1		-	< 0.01
Aroclor-1254	< 1		-	< 0.01

COMMENTS:

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526		Client Sample Lab Number	RPD BATCH	CBH16 0.1-0.2 08-MA10665	Method blank Batch
		QA Description		Spike % Recovery	
		Matrix	Soil	Soil	Soil
		Sample Date	Mar 18, 2008	Mar 18, 2008	Mar 18, 2008
Analysis Type		Units		% Recovery	mg/L
Polychlorinated Biphenyls					
Aroclor-1260			< 1	-	< 0.01
Total PCB			< 1	112	< 0.1
Dibutylchloride (surr.)			-	89	98
Tetrachloro-m-xylene (surr.)			-	90	105

COMMENTS:

Collopy Geotechnics Pty Ltd Unit 11/272 Berkeley St Unanderra NSW 2526 Analysis Type Heavy Metals Mercury	Client Sample ID	CBH18 4.1-4.45	CBH18 4.1-4.45	CBH18 4.1-4.45	CBH18 4.1-4.45	Method blank
	Lab Number	08-MA10683	08-MA10683	08-MA10683	08-MA10683	Batch
	QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
	Matrix	Soil	Soil	Soil	Soil	Soil
	Sample Date	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008	Mar 19, 2008
	Units			% RPD	% Recovery	mg/L
		< 0.1	< 0.1	< 1	73	< 0.005

Client Sample ID		CBH20 2.6-2.95	CBH20 2.6-2.95	CBH20 2.6-2.95	CBH20 2.6-2.95	Method blank
Lab Number		08-MA10689	08-MA10689	08-MA10689	08-MA10689	Batch
QA Description			Duplicate	Duplicate %	Spike % Recovery	
Matrix		Soil	Soil	Soil	Soil	Soil
Sample Date		Mar 20, 2008	Mar 20, 2008	Mar 20, 2008	Mar 20, 2008	Mar 20, 2008
Units				% RPO	% Recovery	mg/L
Analysis Type						
Total Recoverable Hydrocarbons						
TRH C6-C9 Fraction by GC		-	-	< 1	88	< 0.02
TRH C10-C14 Fraction by GC		< 50	< 50	< 1	82	< 0.05
TRH C15-C28 Fraction by GC		< 100	< 100	< 1	-	< 0.1
TRH C29-C36 Fraction by GC		< 100	< 100	< 1	-	< 0.1



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 395 712

Our ref: ASET14776/17956/1-4
Your ref: 224126
NATA Accreditation No: 14484

31 March 2008

MGT Environmental Consulting Pty Ltd
3, Kingston Town Close,
Oakleigh,
VIC 3166.

Attn: Mr. Onur Mehmet.
Fax No: 03 95647190

Dear Onur,

Asbestos Identification

This report presents the results of four samples, forwarded by MGT Environmental Consulting Pty Ltd on 28 March 2008, for analysis for asbestos.

1. Introduction: Four 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. ASET14776 / 17956 / 1. 224126 - MA10665.**
Approx dimensions 3.5 cm x 3.5 cm x 5.0 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of plaster, cement and brick.
No asbestos detected.
- Sample No. 2. ASET14776 / 17956 / 2. 224126 - MA 10680.**
Approx dimensions 3.5 cm x 3.5 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of sand stone, brick and plaster.
No asbestos detected.
- Sample No. 3. ASET14776 / 17956 / 3. 224126 - MA 10685.**
Approx dimensions 3.5 cm x 3.5 cm x 2.5 cm
The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of plaster and brick.
No asbestos detected.

SUITE 710/90 GEORGE STREET, BURNSBY NSW 2033 - P.O. BOX 1644 BURNSBY NORTHGATE NSW 1635
PHONE (02) 99472183 FAX (02) 99872151 EMAIL ase@hugoburnsby.com.au WEBSITE www.aset.com.au

14 JULY 2008 11:45 AM ASET 14776/17956/1-4 HAS BEEN REVIEWED BY NATA AND IS CERTIFIED AS A TRUE AND ACCURATE REPRESENTATION OF THE ANALYSIS RESULTS. THE ANALYSIS WAS CONDUCTED IN ACCORDANCE WITH THE NATA ACCREDITED STANDARD FOR ANALYSIS OF ASBESTOS (AS/NZS 4810:2004).

ASET

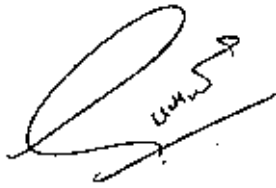
Sample No. 4. ASET14776 / 17956 / 4. 224126 - MA 10689.

Approx dimensions 3.5 cm x 3.5 cm x 3.5 cm

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

No asbestos detected.

Analysed and reported by,



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



WORLD RECOGNISED
ACCREDITATION

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

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 224132 Page 1 of 4
Order Number:
Date Received: Mar 27, 2008
Date Sampled: Mar 27, 2008
Date Reported: Apr 3, 2008
Contact: Richard Moyle

Methods

- USEPA 8082 Polychlorinated Biphenyls
- Method 102 - ANZECC - % Moisture

Comments

Asbestos = ASET Ref No 14775 / 17955 / 1-3 NATA Accreditation No. 14484

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 224132

Michael Wright
Laboratory Manager
NATA Signatory

Omar Michael
Client Manager
NATA Signatory

Orlando Sealon
Chief Organic Chemist
NATA Signatory

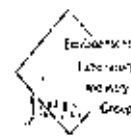
Tamsy Lakeland
Chief Inorganic Chemist

NATA

NATA Accredited
Laboratory Number 1261

The tests, collections or measurements covered by this document have been performed in accordance with NATA requirements which state the requirements of ISO/IEC 17025 and the traceability to national standards of measurement. This document shall not be reproduced, except in full.

LABORATORY
ACCREDITATION



MEMBER

Client Sample ID		CBH7_0.4-0.5	CBH11_0.4-0.5	CBH8_0.4-0.5	CBH12_0.3-0.5
Lab Number		08-MA10748	08-MA10749	08-MA10750	08-MA10751
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 27, 2008	Mar 27, 2008	Mar 27, 2008	Mar 27, 2008
LOR					
Units					
Analysis Type					
Polychlorinated Biphenyls					
Aroclor-1016		mg/kg	-	-	< 0.1
Aroclor-1221		mg/kg	-	-	< 0.1
Aroclor-1232		mg/kg	-	-	< 0.1
Aroclor-1242		mg/kg	-	-	< 0.1
Aroclor-1248		mg/kg	-	-	< 0.1
Aroclor-1254		mg/kg	-	-	< 0.1
Aroclor-1260		mg/kg	-	-	< 0.1
Total PCB		mg/kg	-	-	< 1
Dibutylchlorodate (sum)		%	-	-	112
Tetrachloro-m-xylene (sum)		%	-	-	110
%					
Moisture		%	-	-	8.9
Asbestos			Not detected	Not detected	Not detected



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Client Sample ID		CBH13_0.3-0.5
Lab Number		08-MA10752
Matrix		Soil
Sample Date		Mar 27, 2008
LOR		
Units		
Analysis Type		
Polychlorinated Biphenyls		
Aroclor-1016	0.1	mg/kg < 0.1
Aroclor-1221	0.1	mg/kg < 0.1
Aroclor-1232	0.1	mg/kg < 0.1
Aroclor-1242	0.1	mg/kg < 0.1
Aroclor-1248	0.1	mg/kg < 0.1
Aroclor-1254	0.1	mg/kg < 0.1
Aroclor-1260	0.1	mg/kg < 0.1
Total PCB	1	mg/kg < 1
Diisobutylchloride (surr.)	1	% 112
Tetrachloro-m-xylene (surr.)	1	% 107
% Moisture		14

Client Sample ID		RPD	CBH12_0.3-0.5	Method blank
Lab Number		BATCH	28-MA10751	Batch
QA Description			Spike % Recovery	
Matrix		Soil	Soil	Soil
Sample Date		Mar 27, 2008	Mar 27, 2008	Mar 27, 2008
Units			% Recovery	mg/L
Analysis Type				
Polychlorinated Biphenyls				
Aroclor-1016		< 1	-	< 0.01
Aroclor-1221		< 1	-	< 0.01
Aroclor-1232		< 1	-	< 0.01
Aroclor-1242		< 1	-	< 0.01
Aroclor-1248		< 1	-	< 0.01
Aroclor-1254		< 1	-	< 0.01
Aroclor-1260		< 1	-	< 0.01
Total PCB		< 1	105	< 0.1
Dibutylchlorodato (sur.)		-	89	98
Tetrachloro-m-xylene (sur.)		-	90	105

COMMENTS:

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 224130 Page 1 of 20
Order Number:
Date Received: Mar 27, 2008
Date Sampled: Mar 25, 2008
Date Reported: Apr 4, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million.

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 224130

Michael Wright
Laboratory Manager
NATA Signatory

Omar Melman
Client Manager
NATA Signatory

Orlando Scalzo
Chief Organic Chemist
NATA Signatory

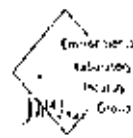
Tammy Lakeland
Chief Inorganic Chemist

NATA

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Laboratory Number 1269

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2008-04-04
SECRET/000004



Member



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Coffey Geotechnics Pty Ltd	Client Sample ID	CEH21 0.4-0.5	CEH21 1.0-1.45	CEH21 2.7-2.95	CEH21 4.1-4.45
Unit 1/222 Berkeley St	Lab Number	08-MA10696	08-MA10697	08-MA10698	08-MA10699
Unanderra	Matrix	Soil	Soil	Soil	Soil
NSW 2526	Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
Analysis Type	LOR	Units			
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC	20	mg/kg	< 20	< 20	< 20
TRH C10-C14 Fraction by GC	50	mg/kg	< 50	< 50	< 50
TRH C15-C28 Fraction by GC	100	mg/kg	< 100	< 100	< 100
TRH C29-C36 Fraction by GC	100	mg/kg	< 100	< 100	< 100
Monocyclic Aromatic Hydrocarbons					
Benzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toluene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Ethylbenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Xylenes (ortho, meta and para)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Fluorobenzene (sum.)	1	%	50	71	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Acenaphthylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Chrysene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Fluoranthene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Naphthalene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Phenanthrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pyrene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PAH	0.1	mg/kg	17	< 0.1	< 0.1
Chrysene-d12 (sum.)	1	%	119	112	136
2-Fluorobiphenyl (sum.)	1	%	104	85	88

COMMENTS:

Client Sample ID		CBH21 0.4-0.5	CBH21 1.0-1.45	CBH21 2.7-2.95	CBH21 4.1-4.45
Lab Number		08-MA10896	08-MA10897	08-MA10898	08-MA10899
Matrix		Soil	Soil	Soil	Soil
Sample Date		Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
LOR					
Units					
0.1		%	12	13	20
2		mg/kg	< 2	< 2	< 2
0.5		mg/kg	< 0.5	< 0.5	< 0.5
5		mg/kg	16	21	6.1
5		mg/kg	8.2	17	7.6
5		mg/kg	20	26	59
5		mg/kg	5.1	13	< 5
5		mg/kg	25	43	70
0.1		mg/kg	< 0.1	< 0.1	< 0.1



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Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St
 Unanderra
 NSW 2526

Coffey Geotechnics Pty Ltd									
Unit 17222 Berkeley St									
Unanderra									
NSW 2526									
Client Sample ID			CBH22 0.2-0.3	CBH22 0.4-0.5	CBH22 1.0-1.35	CBH22 2.0-2.2			
Lab Number			08-MA10700	08-MA10701	08-MA10702	08-MA10703			
Matrix			Soil	Soil	Soil	Soil			
Sample Date			Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008			
Analysis Type		Units							
LOR									
Total Recoverable Hydrocarbons									
TRH C8-C9 Fraction by GC	20	mg/kg	*	< 20	-	*			
TRH C10-C14 Fraction by GC	50	mg/kg	*	< 50	-	-			
TRH C15-C28 Fraction by GC	100	mg/kg	-	< 100	*	-			
TRH C29-C36 Fraction by GC	100	mg/kg	-	< 100	-	-			
Monocyclic Aromatic Hydrocarbons									
Benzene	0.05	mg/kg		< 0.05	*	-			
Toluene	0.05	mg/kg	-	< 0.05	*	*			
Ethylbenzene	0.05	mg/kg		< 0.05	*	-			
xylenes(ortho,meta and para)	0.05	mg/kg	*	< 0.05	*	-			
Fluorobenzene (sum.)	1	%	*	76	-	-			
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	0.1	mg/kg	-	-	< 0.1	-			
Acenaphthylene	0.1	mg/kg	*	*	< 0.1	-			
Anthracene	0.1	mg/kg	-	-	< 0.1	-			
Benzo(a)anthracene	0.1	mg/kg	-	-	< 0.1	*			
Benzo(a)pyrene	0.1	mg/kg	-	-	< 0.1	*			
Benzo(b)fluoranthene	0.1	mg/kg	-	*	< 0.1	-			
Benzo(g,h,i)perylene	0.1	mg/kg	*	*	< 0.1	*			
Benzo(k)fluoranthene	0.1	mg/kg	*	*	< 0.1	-			
Chrysene	0.1	mg/kg	-	-	< 0.1	*			
Dibenz(a,h)anthracene	0.1	mg/kg	-	-	< 0.1	*			
Fluoranthene	0.1	mg/kg	-	*	< 0.1	-			
Fluorene	0.1	mg/kg	*	*	< 0.1	-			
Indeno(1,2,3 cd)pyrene	0.1	mg/kg	*	*	< 0.1	-			
Naphthalene	0.1	mg/kg	*	*	< 0.1	-			
Phenanthrene	0.1	mg/kg	-	-	< 0.1	*			
Pyrene	0.1	mg/kg	-	-	< 0.1	*			
Total PAH	0.1	mg/kg	-	*	< 0.1	-			
Chrysene-d12 (sur.)	1	%	*	*	67	-			
2-Fluorebiphenyl (sur.)	1	%	*	*	79	-			

Client Sample ID		CBH22 0.2-0.3		CBH22 0.4-0.5		CBH22 1.0-1.35		CBH22 2.0-2.2	
Lab Number		08-MA10700		08-MA10701		08-MA10702		08-MA10703	
Matrix		Soil		Soil		Soil		Soil	
Sample Date		Mar 25, 2008		Mar 25, 2008		Mar 25, 2008		Mar 25, 2008	
LOR		Units							
Analysis Type									
Organochlorine Pesticides									
4,4'-DDD		mg/kg		< 0.05					
4,4'-DDE		mg/kg		< 0.05					
4,4'-DDT		mg/kg		< 0.05					
p-BHC		mg/kg		< 0.05					
Aldrin		mg/kg		< 0.05					
p-BHC		mg/kg		< 0.05					
Chlordane		mg/kg		< 0.1					
d-BHC		mg/kg		< 0.05					
Dieldrin		mg/kg		< 0.05					
Endosulfan I		mg/kg		< 0.05					
Endosulfan II		mg/kg		< 0.05					
Endosulfan sulphate		mg/kg		< 0.05					
Endrin		mg/kg		< 0.05					
Endrin aldehyde		mg/kg		< 0.05					
Endrin ketone		mg/kg		< 0.05					
g-BHC (Lindane)		mg/kg		< 0.05					
Heptachlor		mg/kg		< 0.05					
Heptachlor epoxide		mg/kg		< 0.05					
Hexachlorobenzene		mg/kg		< 0.05					
Methoxychlor		mg/kg		< 0.05					
Toxophene		mg/kg		< 0.1					
Dibutylchloride (surf.)		%		111					
Tetrachloro-m-xylene (surf.)		%		121					
Polychlorinated Biphenyls									
Aroclor 1016		mg/kg		< 0.1					
Aroclor 1221		mg/kg		< 0.1					
Aroclor 1232		mg/kg		< 0.1					
Aroclor 1242		mg/kg		< 0.1					

Client Sample ID		CBH22 0.2-0.3	CBH22 0.4-0.5	CBH22 1.0-1.35	CBH22 2.0-2.2
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10700	08-MA10701	08-MA10702	08-MA10703
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
	LOR				
	Units				
Analysis Type					
Aroclor-1248	0.1	mg/kg	-	-	-
Aroclor-1254	0.1	mg/kg	-	-	-
Aroclor-1260	0.1	mg/kg	-	-	-
Total PCB	1	mg/kg	-	-	-
Dibutylchlorododecylate (surr.)	1	%	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	-
% Moisture	0.1	%	9.8	10	8.1
Heavy Metals (7)					
Arsenic	2	mg/kg	-	-	< 2
Cadmium	0.5	mg/kg	-	-	< 0.5
Chromium	5	mg/kg	-	-	22
Copper	5	mg/kg	-	-	< 5
Lead	5	mg/kg	-	-	< 5
Nickel	5	mg/kg	-	-	< 5
Zinc	5	mg/kg	-	-	6.1
Heavy Metals					
Mercury	0.1	mg/kg	-	-	< 0.1

Coffey Geotechnics Pty Ltd

Unit 1222 Berkeley St

Unanderra

NSW 2526

Client Sample ID	CBH23 0.3-0.4	CBH23 0.8-1	CBH24 0.4-0.5	CBH24 0.8-1.0
Lab Number	08-MA10704	08-MA10705	08-MA10706	08-MA10707
Matrix	Soil	Soil	Soil	Soil
Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
LOR				
Units				
Analyst Type				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC		< 20	< 20	*
TRH C10-C14 Fraction by GC		< 50	< 50	*
TRH C15-C28 Fraction by GC		< 100	< 100	*
TRH C29-C36 Fraction by GC		< 100	< 100	*
Monocyclic Aromatic Hydrocarbons				
Benzene		< 0.05	< 0.05	-
Toluene		< 0.05	< 0.05	-
Ethylbenzene		< 0.05	< 0.05	-
Xylenes(ortho, meta and para)		< 0.05	< 0.05	-
Fluorobenzene (sum.)		88	78	-
Polycyclic Aromatic Hydrocarbons				
Acenaphthene				< 0.1
Acenaphthylene				< 0.1
Anthracene				< 0.1
Benz(a)anthracene				< 0.1
Benz(a)pyrene				< 0.1
Benz(b)fluoranthene				< 0.1
Benz(g,h,i)perylene				< 0.1
Benz(k)fluoranthene				< 0.1
Chrysene				< 0.1
Dibenz(a,h)anthracene				< 0.1
Fluoranthene				< 0.1
Fluorene				< 0.1
Indeno(1,2,3-cd)pyrene				< 0.1
Naphthalene				< 0.1
Phenanthrene				< 0.1
Pyrene				< 0.1
Total PAH				85
Chrysene-d12 (sum.)				97
2-Fluorobiphenyl (sum.)				

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID		CBH23 0.3-0.4	CBH23 0.8-1	CBH24 0.4-0.5	CBH24 0.8-1.0
	Lab Number	08-MA10704	08-MA10705	08-MA10706	08-MA10707	
	Matrix	Soil	Soil	Soil	Soil	
	Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	
	LOR					
Analysis Type		Units				
	0.1	%	8.1	7.0	11	3.9
Heavy Metals (7)						
Arsenic	2	mg/kg	<2	3.4	7.3	<2
Cadmium	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Chromium	5	mg/kg	51	11	21	<5
Copper	5	mg/kg	17	<5	<5	<5
Lead	5	mg/kg	<5	<5	11	16
Nickel	5	mg/kg	42	<5	5.1	<5
Zinc	5	mg/kg	29	<5	<5	<5
Heavy Metals						
Mercury	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1

Coffey Geotechnics Pty Ltd

Unit 1/222 Berkeley St
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 NSW 2526

Client Sample ID	CBH25 0.3-0.4	CBH25 0.7-0.8	CBH26 0.0-1	CBH27 0.1-0.2
Lab Number	08-MA10708	08-MA10709	08-MA10710	08-MA10711
Matrix	Soil	Soil	Soil	Soil
Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
LOR	Units			
Analysis Type				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC		< 20	< 20	< 20
TRH C10-C14 Fraction by GC		< 50	< 50	< 50
TRH C15-C28 Fraction by GC		< 100	< 100	< 100
TRH C29-C36 Fraction by GC		< 100	< 100	< 100
Monocyclic Aromatic Hydrocarbons				
Benzene	0.05	< 0.05	< 0.05	< 0.05
Toluene	0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	0.05	< 0.05	< 0.05	< 0.05
Xylenes (ortho meta and para)	0.05	< 0.05	< 0.05	< 0.05
Fluorobenzene (sur.)	1	73	87	84
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	0.1	< 0.1	< 0.1	< 0.1
Anthracene	0.1	< 0.1	< 0.1	< 0.1
Benz(a)anthracene	0.1	< 0.1	0.1	< 0.1
Benz(a)pyrene	0.1	< 0.1	< 0.1	< 0.1
Benz(b)fluoranthene	0.1	< 0.1	0.1	< 0.1
Benz(g,h,i)perylene	0.1	< 0.1	< 0.1	< 0.1
Benz(k)fluoranthene	0.1	< 0.1	< 0.1	< 0.1
Chrysene	0.1	< 0.1	0.1	< 0.1
Dibenz(a,h)anthracene	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	0.1	< 0.1	0.2	0.1
Fluorene	0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	< 0.1	< 0.1	< 0.1
Naphthalene	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	0.1	< 0.1	< 0.1	< 0.1
Pyrene	0.1	< 0.1	0.2	< 0.1
Total PAH	0.1	< 0.1	0.7	0.1
Chrysene-d12 (sur.)	1	106	116	135
2-Fluorobiphenyl (sur.)	1	90	93	100

COMMENTS

Client Sample ID		CBH25 0.3-0.4	CBH25 0.7-0.8	CBH26 0-0.1	CBH27 0.1-0.2
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10708	08-MA10709	08-MA10710	08-MA10711
	Matrix	Soil	Soil	Soil	Soil
	Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
	LOR				
Analysis Type		Units			
Organochlorine Pesticides					
4,4'-DDD		mg/kg	-	< 0.05	< 0.05
4,4'-DDE		mg/kg	-	< 0.05	< 0.05
4,4'-DDT		mg/kg	-	< 0.05	< 0.05
a-BHC		mg/kg	-	< 0.05	< 0.05
Aldrin		mg/kg	-	< 0.05	< 0.05
b-BHC		mg/kg	-	< 0.05	< 0.05
Chlordane		mg/kg	-	< 0.1	< 0.1
d-BHC		mg/kg	-	< 0.05	< 0.05
Dieldrin		mg/kg	-	< 0.05	< 0.05
Endosulfan I		mg/kg	-	< 0.05	< 0.05
Endosulfan II		mg/kg	-	< 0.05	< 0.05
Endosulfan sulphate		mg/kg	-	< 0.05	< 0.05
Endrin		mg/kg	-	< 0.05	< 0.05
Endrin aldehyde		mg/kg	-	< 0.05	< 0.05
Endrin ketone		mg/kg	-	< 0.05	< 0.05
g-BHC (Lindane)		mg/kg	-	< 0.05	< 0.05
Heptachlor		mg/kg	-	< 0.05	< 0.05
Heptachlor epoxide		mg/kg	-	< 0.05	< 0.05
Hexachlorobenzene		mg/kg	-	< 0.05	< 0.05
Methoxychlor		mg/kg	-	< 0.1	< 0.1
Toxaphene		mg/kg	-	< 0.1	< 0.1
Dibutylchloride (sum.)		%	-	80	112
Tetrachloro-m-xylene (sum.)		%	-	100	97
%		%	-	-	-
%		%	5.7	6.1	6.5
Heavy Metals (7)		mg/kg	< 2	2.0	3.3
Arsenic		mg/kg	< 0.5	< 0.5	< 0.5
Cadmium		mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID		C6H25 0.3-0.4		C6H25 0.7-0.8		C6H26 0-0.1		C6H27 0.1-0.2	
Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10708		08-MA10709		08-MA10710		08-MA10711	
	Matrix	Soil		Soil		Soil		Soil	
	Sample Date	Mar 25, 2008		Mar 25, 2008		Mar 25, 2008		Mar 25, 2008	
	LOR	Units							
	Analysis Type								
Chromium	5	mg/kg		23		22		16	
Copper	5	mg/kg		< 5		15		14	
Lead	5	mg/kg		13		55		55	
Nickel	5	mg/kg		32		7.0		7.9	
Zinc	5	mg/kg		29		62		45	
Heavy Metals									
Mercury	0.1	mg/kg		< 0.1		< 0.1		< 0.1	

Client Sample ID		QC118	QC120	QC122
Lab Number		08-MA10712	08-MA10713	08-MA10714
Matrix		Soil	Soil	Soil
Sample Date		Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
LOR		Units		
Analysis Type				
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC		< 20	< 20	< 20
TRH C10-C14 Fraction by GC		< 50	< 50	< 50
TRH C15-C28 Fraction by GC		< 100	< 100	< 100
TRH C29-C36 Fraction by GC		< 100	< 100	< 100
Monocyclic Aromatic Hydrocarbons				
Benzene		< 0.05	< 0.05	< 0.05
Toluene		< 0.05	< 0.05	< 0.05
Ethylbenzene		< 0.05	< 0.05	< 0.05
Xylenes (ortho meta and para)		< 0.05	< 0.05	< 0.05
Fluorobenzene (sur.)		85	99	73
Polycyclic Aromatic Hydrocarbons				
Acenaphthene		< 0.1	-	-
Acenaphthylene		< 0.1	-	-
Anthracene		< 0.1	-	-
Benz(a)anthracene		< 0.1	-	-
Benz(a)pyrene		< 0.1	-	-
Benzo(b)fluoranthene		< 0.1	-	-
Benzo(g,h,i)perylene		< 0.1	-	-
Benzo(k)fluoranthene		< 0.1	-	-
Chrysene		< 0.1	-	-
Dibenz(a,h)anthracene		< 0.1	-	-
Fluoranthene		< 0.1	-	-
Fluorene		< 0.1	-	-
Indeno(1,2,3-cd)pyrene		< 0.1	-	-
Naphthalene		< 0.1	-	-
Phenanthrene		< 0.1	-	-
Pyrene		< 0.1	-	-
Total PAH		< 0.1	-	-
Chrysene d12 (sur.)		114	-	-
2-Fluorobiphenyl (sur.)		93	-	-

Client Sample ID		QC118		QC120		QC122	
Coffey Geotechnics Pty Ltd Unit 1222 Berkeley St Unanderra NSW 2526	Lab Number	08-MA10712		08-MA10713		08-MA10714	
	Matrix	Soil		Soil		Soil	
	Sample Date	Mar 25, 2008		Mar 25, 2008		Mar 25, 2008	
	LOR						
	Units						
Analysis Type							
Polychlorinated Biphenyls							
Aroclor 1016						< 0.1	
Aroclor 1221						< 0.1	
Aroclor 1232						< 0.1	
Aroclor 1242						< 0.1	
Aroclor 1248						< 0.1	
Aroclor 1254						< 0.1	
Aroclor 1260						< 0.1	
Total PCB						< 1	
Dibutylchlorodendate (sur.)						95	
Tetrachloro-m-xylene (sur.)						113	
% Moisture		12		5.8		8.8	
Heavy Metals (7)							
Arsenic		2.8		5.0			
Cadmium		< 0.5		< 0.5			
Chromium		15		15			
Copper		11		< 5			
Lead		30		< 5			
Nickel		< 5		< 5			
Zinc		30		< 5			
Heavy Metals							
Mercury		< 0.1		< 0.1			

Client Sample ID	CBH21 0.4-0.5	CBH21 0.4-0.5	CBH21 0.4-0.5	CBH21 0.4-0.5	CBH21 0.4-0.5	Method blank
Lab Number:	08-MA10696	08-MA10696	08-MA10696	08-MA10696	08-MA10696	Batch
QA Description:	Duplicate	Duplicate	Duplicate	Duplicate % RPD	Spike % Recovery	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
Units				% RPD	% Recovery	mg/L
Analysis Type						
Total Recoverable Hydrocarbons	< 50	< 50	< 50	< 1	79	-
TRH C10-C14 Fraction by GC	< 100	< 100	< 100	< 1	-	-
TRH C15-C28 Fraction by GC	< 100	< 100	< 100	< 1	-	-
TRH C29-C36 Fraction by GC						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene				< 1	100	< 0.02
Acenaphthylene				< 1	97	< 0.02
Anthracene				< 1	91	< 0.02
Benz(a)anthracene				< 1	83	< 0.02
Benz(b)fluoranthene				< 1	99	< 0.02
Benzofluoranthene				< 1	72	< 0.02
Benz(g,h,i)perylene				< 1	126	< 0.02
Benz(k)fluoranthene				< 1	111	< 0.02
Chrysene				< 1	115	< 0.02
Dibenz(a,h)anthracene				< 1	115	< 0.02
Fluoranthene				< 1	111	< 0.02
Fluorene				< 1	118	< 0.02
Indeno(1,2,3-cd)pyrene				< 1	120	< 0.02
Naphthalene				< 1	101	< 0.02
Phenanthrene				< 1	125	< 0.02
Pyrene				< 1	129	< 0.02
Total PAH				-	-	< 0.02
Chrysene-d12 (sur)				-	119	127
2-Fluorobiphenyl (sur)				-	111	86
Heavy Metals						
Mercury	< 0.1	< 0.1	< 0.1	< 1	82	-

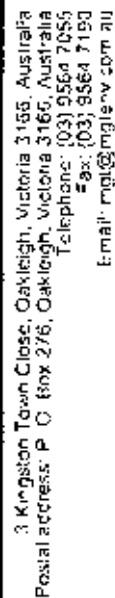
Client Sample ID		CBH22 0.2-0.3	CBH22 0.2-0.3	CBH22 0.2-0.3	CBH22 0.2-0.3	Method blank
Lab Number	08-MA10700	08-MA10700	08-MA10700	08-MA10700	08-MA10700	Batch
QA Description	Duplicate	Duplicate %	Duplicate %	Duplicate %	Duplicate %	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
Units		% RPD	% RPD	% RPD	% Recovery	mg/l
Analysis Type						
Organochlorine Pesticides						
4,4'-DDP	< 0.05	< 0.05	< 1	118	< 0.005	
4,4'-DDE	< 0.05	< 0.05	< 1	107	< 0.005	
4,4'-DDT	< 0.05	< 0.05	< 1	130	< 0.005	
α-BHC	< 0.05	< 0.05	< 1	101	< 0.005	
Aldrin	< 0.05	< 0.05	< 1	94	< 0.005	
β-BHC	< 0.05	< 0.05	< 1	93	< 0.005	
Chlordane	< 0.1	< 0.1	< 1	98	< 0.01	
δ-BHC	< 0.05	< 0.05	< 1	109	< 0.005	
Dieldrin	< 0.05	< 0.05	< 1	122	< 0.005	
Endosulfan I	< 0.05	< 0.05	< 1	114	< 0.005	
Endosulfan II	< 0.05	< 0.05	< 1	116	< 0.005	
Endosulfan sulphate	< 0.05	< 0.05	< 1	119	< 0.005	
Endrin	< 0.05	< 0.05	< 1	126	< 0.005	
Endrin aldehyde	< 0.05	< 0.05	< 1	112	< 0.005	
Endrin ketone	< 0.05	< 0.05	< 1	105	< 0.005	
γ-BHC (Lindane)	< 0.05	< 0.05	< 1	103	< 0.005	
Heptachlor	< 0.05	< 0.05	< 1	177	< 0.005	
Heptachlor epoxide	< 0.05	< 0.05	< 1	116	< 0.005	
Hexachlorobenzene	< 0.05	< 0.05	< 1	99	< 0.005	
Methoxychlor	< 0.05	< 0.05	< 1	123	< 0.005	
Toxophene	< 0.1	< 0.1	< 1	89	< 0.01	
Polychlorinated Biphenyls						
Aroclor-1015	< 0.1	< 0.1	< 1	-	< 0.01	
Aroclor-1221	< 0.1	< 0.1	< 1	-	< 0.01	
Aroclor-1232	< 0.1	< 0.1	< 1	-	< 0.01	
Aroclor-1242	< 0.1	< 0.1	< 1	-	< 0.01	
Aroclor-1248	< 0.1	< 0.1	< 1	-	< 0.01	
Aroclor-1254	< 0.1	< 0.1	< 1	-	< 0.01	

COMMENTS:

Goffey Geotechnics Pty Ltd
 Unit 1/222 Berkeley St
 Unanderra
 NSW 2526

Client Sample Lab Number	CBH22.0.2-0.3 08-MA10700	CBH22.0.2-0.3 08-MA10700	CBH22.0.2-0.3 08-MA10700	CBH22.0.2-0.3 08-MA10700	Method blank Batch
QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
Units			% kPaC	% Recovery	mg/L
Analysis Type					
Polychlorinated Biphenyls					
Aroclor-1260	< 0.1	< 0.1	< 1	-	< 0.01
Total PCB	< 1	< 1	< 1	112	< 0.1
Dibutylchloride (surr.)	111	97		89	98
Tetrachloro-m-xylene (surr.)	121	105	-	90	105

COMMENTS:



COMMENTS.

Coltroy Geotechnics Pty Ltd		Client Sample ID	RPD	CBM24 04.05	Method blank
Unit 1/222 Berkeley St		Lab Number	BATCH	08-MA15705	Batch
Unanderra		QA Description		Spike % Recovery	
NSW 252G		Matrix	Soil	Soil	Soil
		Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
		Units		% Recovery	mg/L
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C6 C9 Fraction by GC			< 1	88	< 0.02
Monocyclic Aromatic Hydrocarbons					
Benzene			< 1	80	< 0.005
Toluene			< 1	75	< 0.005
Ethylbenzene			< 1	76	< 0.005
Xylenes (ortho, meta and para)			< 1	75	< 0.005
Fluorobenzene (sum)			-	108	1.4

COMMENTS:

Colley Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526 Analysis Type Heavy Metals Mercury	Client Sample ID	CBH25 0.3-0.4	CBH25 0.3-0.4	CBH25 0.3-0.4	CBH25 0.3-0.4	Method blank
	Lab Number	08-MA10708	08-MA10708	08-MA10708	08-MA10708	Batch
	QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
	Matrix	Soil	Soil	Soil	Soil	Soil
	Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
	Units			% RPD	% Recovery	mg/l
		< 0.1	< 0.1	< 1	73	< 0.005

Colley Geotechnics Pty Ltd		Client Sample ID	QC120	QC120	QC120	QC120	Method blank
Unit 1/22 Berkeley St		Lab Number	08-MA10713	08-MA10713	08-MA10713	08-MA10713	Batch
Unanderra		QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	
NSW 2526		Matrix	Soil	Soil	Soil	Soil	Soil
		Sample Date	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008	Mar 25, 2008
Analysis Type		Units			% RPD	% Recovery	mg/L
Total Recoverable Hydrocarbons							
TRH C10-C14 Fraction by GC			< 50	< 50	< 1	86	< 0.05
TRH C15-C26 Fraction by GC			< 100	< 100	< 1	.	< 0.1
TRH C29-C36 Fraction by GC			< 100	< 100	< 1	.	< 0.1



Sample Receipt Advice

Company name: Coffey Geotechnics Pty Ltd UNAN
Contact name: Daniel Deen
Client job number: GL23462AA
COC number: 20401-20402
Turn around time: Five day
Date received: Mar 27, 2008
MGT lab reference: 224130

Sample information

- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ All samples were provided chilled.
- ✓ 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.

Contact notes

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

Onur Mehmet on the above number or by e.mail: mehmeto@mgtenv.com.au

Results will be delivered electronically via e.mail to Daniel Deen - daniel_deen@coffey.com.

mgt Sample Receipt

W 0242226000

Temperature

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CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GL23462AA

Report Number: 223788 Page 1 of 8
Order Number:
Date Received: Mar 19, 2008
Date Sampled: Mar 11, 2008
Date Reported: Apr 10, 2008
Contact: Richard Moyle

Methods

- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury
- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- MGT100A-GC Total Recoverable Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

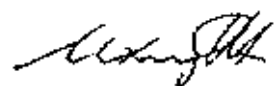
RPD : Relative Percent Difference

CRM : Certified Reference Material

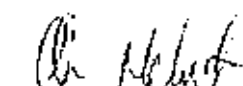
LCS : Laboratory Control Sample

Authorised

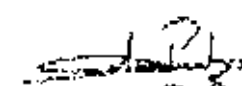
Report Number: 223788



Michael Wright
Laboratory Manager
NATA Signatory



Omar Melner
Client Manager
NATA Signatory



Orlando Scalzo
Chief Organic Chemist
NATA Signatory



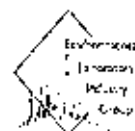
Tanya Lakeland
Chief Inorganic Chemist



ISO 17025:2005
ACCREDITED

NATA Accredited
Laboratory Number 1261

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Member



Environmental Consulting Pty. Ltd.

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Telephone: (03) 9564 7055
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E-mail: mgt@mgtenv.com.au

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID			CBH4 0.7-1.0	CBH5 0.3-0.4	CBH6 0.4-0.5	RB102
	Lab Number		08-MA07954	08-MA07955	08-MA07956	08-MA07957	
	Matrix		Soil	Soil	Soil	Water	
	Sample Date		Mar 11, 2008	Mar 11, 2008	Mar 12, 2008	Mar 12, 2008	
Analysis Type	LOR	Units					
Total Recoverable Hydrocarbons							
TRH C6-C9 Fraction by GC	20	mg/kg	< 20	< 20	-	-	-
TRH C10-C14 Fraction by GC	50	mg/kg	< 50	< 50	-	-	-
TRH C15-C28 Fraction by GC	100	mg/kg	< 100	< 100	-	-	-
TRH C29-C36 Fraction by GC	100	mg/kg	< 100	< 100	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	0.05	mg/kg	< 0.05	< 0.05	-	-	-
Toluene	0.05	mg/kg	< 0.05	< 0.05	-	-	-
Ethylbenzene	0.05	mg/kg	< 0.05	< 0.05	-	-	-
Xylenes(ortho,meta and para)	0.05	mg/kg	< 0.05	< 0.05	-	-	-
Fluorobenzene (sum.)	1	%	82	104	-	-	-
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	0.1	mg/kg	-	-	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	-	-	< 0.1	-	-
Anthracene	0.1	mg/kg	-	-	0.1	-	-
Benzo(a)anthracene	0.1	mg/kg	-	-	0.3	-	-
Benzo(a)pyrene	0.1	mg/kg	-	-	0.3	-	-
Benzo(b)fluoranthene	0.1	mg/kg	-	-	0.3	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	-	-	0.2	-	-
Benzo(k)fluoranthene	0.1	mg/kg	-	-	0.2	-	-
Chrysene	0.1	mg/kg	-	-	0.3	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	-	-	< 0.1	-	-
Fluoranthene	0.1	mg/kg	-	-	0.8	-	-
Fluorene	0.1	mg/kg	-	-	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	-	-	0.2	-	-
Naphthalene	0.1	mg/kg	-	-	< 0.1	-	-
Phenanthrene	0.1	mg/kg	-	-	0.5	-	-
Pyrene	0.1	mg/kg	-	-	0.7	-	-
Total PAH	0.1	mg/kg	-	-	3.9	-	-
Chrysene-d12 (sum.)	1	%	-	-	91	-	-
2-Fluorobiphenyl (sum.)	1	%	-	-	86	-	-

COMMENTS:

Client Sample ID		CBH4 0.7-1.0	CBH5 0.3-0.4	CBH6 0.4-0.5	RB102
Lab Number		03-MA07964	03-MA07955	03-MA07956	03-MA07957
Matrix		Soil	Soil	Soil	Water
Sample Date		Mar 11, 2008	Mar 11, 2008	Mar 12, 2008	Mar 12, 2008
LOR					
Units					
Analysis Type					
Organochlorine Pesticides					
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.0001
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.0001
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.0001
a-BHC	0.05	mg/kg	< 0.05	-	< 0.0001
Aldrin	0.05	mg/kg	< 0.05	-	< 0.0001
b-BHC	0.05	mg/kg	< 0.05	-	< 0.0001
Chlordane	0.1	mg/kg	< 0.1	-	< 0.001
d-BHC	0.05	mg/kg	< 0.05	-	< 0.0001
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.0001
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.0001
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.0001
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.0001
Endrin	0.05	mg/kg	< 0.05	-	< 0.0001
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.0001
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.0001
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.0001
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.0001
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.0001
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.0001
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.0001
Toxophene	0.1	mg/kg	< 0.1	-	< 0.001
Dibutylchlorodate (surr.)	1	%	71	-	72
Tetrachloro-m-xylene (surr.)	1	%	91	-	74
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.001
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.001
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.001
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.001

COMMENTS:

Coffey Geotechnics Pty Ltd		Client Sample ID		CBH4 0.7-1.0	CBH5 0.3-0.4	CBH6 0.4-0.5	RB102
Unit 1/222 Berkeley St		Lab Number		08-MA07954	08-MA07955	08-MA07956	08-MA07957
Unanderra		Matrix		Soil	Soil	Soil	Water
NSW 2526		Sample Date		Mar 11, 2008	Mar 11, 2008	Mar 12, 2008	Mar 12, 2008
Analysis Type	Units	LOR					
Aroclor-1248	mg/kg	0.1		-	< 0.1	-	< 0.001
Aroclor-1254	mg/kg	0.1		-	< 0.1	-	< 0.001
Aroclor-1260	mg/kg	0.1		-	< 0.1	-	< 0.001
Total PCB	mg/kg	1		-	< 1	-	< 0.01
Dibutylchlorodate (sum.)	%	1		-	71	-	122
Tetrachloro-m-xylene (sum.)	%	1		-	91	-	74
% Moisture	%	0.1		3.8	11	5.7	
Heavy Metals (7)							
Arsenic	mg/kg	2		-	2.6	-	-
Cadmium	mg/kg	0.5		-	< 0.5	-	-
Chromium	mg/kg	5		-	22	-	-
Copper	mg/kg	5		-	7.3	-	-
Lead	mg/kg	5		-	17	-	-
Nickel	mg/kg	5		-	9.8	-	-
Zinc	mg/kg	5		-	19	-	-
Heavy Metals							
Mercury	mg/kg	0.1		-	< 0.1	-	-

Colley Geotechnics Pty Ltd		Client Sample ID	RPD	CBH4 0.7-1.0	Method blank
Unit 1/222 Berkeley St		Lab Number	BATCH	08-MA07954	Batch
Chandera		QA		Spike %	
NSW 2526		Description		Recovery	
		Matrix	Soil	Soil	Soil
		Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
		Units		% Recovery	mg/L
Analysis Type					
Total Recoverable Hydrocarbons					
TRH C6-C9 Fraction by GC			< 1	88	< 0.02
TRH C10-C14 Fraction by GC			< 1	121	< 0.05
TRH C15-C28 Fraction by GC			< 1	-	< 0.1
TRH C29-C36 Fraction by GC			< 1	-	< 0.1
Monocyclic Aromatic Hydrocarbons					
Benzene			< 1	80	< 0.005
Toluene			< 1	75	< 0.005
Ethylbenzene			< 1	76	< 0.005
Xylenes(ortho,meta and para)			< 1	75	< 0.005
Fluorobenzene (surr.)			-	106	83

COMMENTS:

Cooley Geotechnics Pty Ltd		Client Sample ID	RPD	CBHS 03-04	Method blank
Unit 1/222 Berkeley St		Lab Number	BATCH	08.MAD7955	Batch
Unanderra		QA Description		Spike % Recovery	
NSW 2526		Matrix	Soil	Soil	Soil
		Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
Analysis Type		Units		% Recovery	mg/L
Organochlorine Pesticides					
4,4'-DDO			< 1	123	< 0.005
4,4'-DDE			< 1	120	< 0.005
4,4'-DDT			< 1	103	< 0.005
p-BHC			< 1	94	< 0.005
Aldrin			< 1	95	< 0.005
b-BHC			< 1	83	< 0.005
Chlordane			< 1	81	< 0.01
d-BHC			< 1	126	< 0.005
Dieldrin			< 1	111	< 0.005
Endosulfan I			< 1	100	< 0.005
Endosulfan II			< 1	95	< 0.005
Endosulfan sulphate			< 1	130	< 0.005
Endrin			< 1	120	< 0.005
Endrin aldehyde			< 1	103	< 0.005
Endrin ketone			< 1	130	< 0.005
p-BHC (Lindane)			< 1	93	< 0.005
Heptachlor			< 1	128	< 0.005
Heptachlor epoxide			< 1	88	< 0.005
Hexachlorobenzene			< 1	85	< 0.005
Methoxychlor			< 1	108	< 0.005
Toxaphene			< 1	79	< 0.01
Polychlorinated Biphenyls					
Aroclor-1016			< 1	-	< 0.01
Aroclor-1221			< 1	-	< 0.01
Aroclor-1232			< 1	-	< 0.01
Aroclor-1242			< 1	-	< 0.01
Aroclor-1248			< 1	-	< 0.01
Aroclor-1254			< 1	-	< 0.01

COMMENTS

Goffey Geotechnics Pty Ltd
 Unit 1/222 Berkeley St
 Unanderra
 NSW 2526

Client Sample Lab Number	RPD BATCH	CBHS 0.3-0.4 08-MJA07955	Method blank Batch
QA Description		Spike % Recovery	
Matrix	Soil	Soil	Soil
Sample Date	Mar 11, 2008	Mar 11, 2008	Mar 11, 2008
Units		% Recovery	mg/L
Analysis Type			
Polychlorinated Biphenyls			
Aroclor-1260	< 1	-	< 0.01
Total PCB	< 1	95	< 0.1
Dibutylchlorododecylate (surr.)	-	89	82
Tetrachloro-m-xylene (surr.)	-	81	98
Heavy Metals (7)			
Arsenic	-	77	< 0.05
Cadmium	< 1	95	< 0.02
Chromium	15	94	< 0.2
Copper	15	114	< 0.2
Lead	10	85	< 0.05
Nickel	0.70	121	< 0.2
Zinc	5.0	109	< 0.2
Heavy Metals			
Mercury	< 1	75	< 0.005

COMMENTS:

3 Kingston Town Close, Oakleigh, Victoria 3166, Australia
 Postal address: P. O. Box 276, Oakleigh, Victoria 3166, Australia
 Telephone: (03) 9564 7055
 Fax: (03) 9564 7190
 Email: mgt@mgtenv.com.au

Client Sample		RPD	CSH6.0 4.0 5	Method blank
IP	Lab Number	BATCH	08-MA07956	Batch
QA	Description		Spike %	
Matrix	Soil		Recovery	
Sample Date	Mar 12, 2008			Mar 12, 2008
Units	% Recovery			mg/L
Analysis Type				
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	< 1		91	< 0.02
Acenaphthylene	< 1		97	< 0.02
Anthracene	< 1		97	< 0.02
Benzo(a)anthracene	< 1		102	< 0.02
Benzo(a)pyrene	< 1		99	< 0.02
Benzo(b)fluoranthene	< 1		84	< 0.02
Benzo(g,h,i)perylene	< 1		79	< 0.02
Benzo(k)fluoranthene	< 1		83	< 0.02
Chrysene	< 1		111	< 0.02
Dibenz(a,h)anthracene	< 1		70	< 0.02
Fluoranthene	< 1		97	< 0.02
Fluorene	< 1		93	< 0.02
Indeno(1,2,3-cd)pyrene	< 1		76	< 0.02
Naphthalene	< 1		96	< 0.02
Phenanthrene	< 1		98	< 0.02
Pyrene	< 1		103	< 0.02
Total PAH	-		-	< 0.02
Chrysene-d12 (sur.)	-		125	135
2-Fluorobiphenyl (sur.)	-		96	76

COMMENTS:



Sample Receipt Advice

Company name: Coffey Geotechnics Pty Ltd UNAN
Contact name: Not provided
Client job number: GL23462AA
COC number: 13841
Turn around time: Five day
Date received: Mar 19, 2008
MGT lab reference: 223788

Sample information

- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ All samples were provided chilled.
- ☒ 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.

Contact notes

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

Andrew Thexton on the above number or by e.mail. athexton@mgtenv.com.au

mgt Sample Receipt

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GEOTLCOV23462AA

Report Number: 225740 Page 1 of 4
Order Number:
Date Received: Apr 22, 2008
Date Sampled: Apr 22, 2008
Date Reported: May 5, 2008
Contact: Daniel Deen

Methods

- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- Method 102 - ANZECC - % Moisture

Comments

Asbestos = ASET Ref No 14978 / 18158 / 1-4 NATA Accreditation No. 14484

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 225740

Michael Wright
Laboratory Manager
NATA Signatory

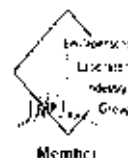
Onur Mehmet
Client Manager
NATA Signatory

Orkuno Sealyo
Chief Organic Chemist
NATA Signatory

Tammy Lakehead
Chief Inorganic Chemist



NATA Accredited
Laboratory Number 126
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Coffey Geotechnics Pty Ltd		Client Sample ID	Units	CBH4_0.3-0.5	CBH11_0.2-0.3	CBH13_0.7-1.0	CBH14_1.0-1.45
Unit 1/222 Berkeley St		Lab Number		08-Ap11505	08-Ap11506	08-Ap11507	08-Ap11508
Unandorra		Matrix		Soil	Soil	Soil	Soil
NSW 2526		Sample Date		Apr 22, 2008	Apr 22, 2008	Apr 22, 2008	Apr 22, 2008
Analysis Type	LOR	Units					
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	0.1	mg/kg			< 0.1		
Acenaphthylene	0.1	mg/kg			< 0.1		
Anthracene	0.1	mg/kg			< 0.1		
Benz(a)anthracene	0.1	mg/kg			0.3		
Benz(a)pyrene	0.1	mg/kg			0.3		
Benz(b)fluoranthene	0.1	mg/kg			0.3		
Benz(g,h,i)perylene	0.1	mg/kg			< 0.1		
Benz(k)fluoranthene	0.1	mg/kg			0.2		
Chrysene	0.1	mg/kg			0.4		
Dibenz(a,h)anthracene	0.1	mg/kg			< 0.1		
Fluoranthene	0.1	mg/kg			0.6		
Fluoranthene	0.1	mg/kg			< 0.1		
Indeno(1,2,3-cd)pyrene	0.1	mg/kg			< 0.1		
Naphthalene	0.1	mg/kg			0.3		
Phenanthrene	0.1	mg/kg			0.4		
Pyrene	0.1	mg/kg			0.6		
Total PAH	0.1	mg/kg			3.4		
Chrysene-d12 (sur.)	?	%			99		
2-Fluorobiphenyl (sur.)	?	%			108		
% Moisture	0.1	%			13		
Asbestos				Not detected		Not detected	Not detected

Colley Geotechnics Pty Ltd		Client Sample ID	RPD	CBH11_Q.2-Q.3	Method blank
Unit 1/222 Berkeley St		Lab Number	BATCH	D3-AP115D6	Satch
Unanderra		QA Description		Spike % Recovery	
NSW 2526		Matrix	Soil	Soil	Soil
		Sample Date	Apr 22, 2008	Apr 22, 2008	Apr 22, 2008
		Units		% Recovery	mg/L
Analysis Type					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene			< 1	122	< 0.02
Acenaphthylene			< 1	118	< 0.02
Anthracene			< 1	113	< 0.02
Benz(a)anthracene			< 1	110	< 0.02
Benz(a)pyrene			< 1	111	< 0.02
Benz(b)fluoranthene			< 1	107	< 0.02
Benz(g,h,i)perylene			< 1	101	< 0.02
Benz(k)fluoranthene			< 1	107	< 0.02
Chrysene			< 1	114	< 0.02
Dibenz(a,h)anthracene			< 1	97	< 0.02
Fluoranthene			< 1	98	< 0.02
Fluorene			< 1	111	< 0.02
Indeno(1,2,3-cd)pyrene			< 1	107	< 0.02
Naphthalene			< 1	105	< 0.02
Phenanthrene			< 1	108	< 0.02
Pyrene			< 1	97	< 0.02
Total PAH					< 0.02
Chrysene-d12 (sum)				92	121
2-Fluorobiphenyl (sum)				139	79

COMMENTS:

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ADN 36 GR8 025 112

Our ref. ASSET14978/ 18158 / 1 - 4

Your ref: 225740

NATA Accreditation No: 14484

24 April 2008

MGT environmental Consulting Pty Ltd
3 Kingston Town Close
Oakleigh VIC 3166

Attn: Mr Omar Mehner

Dear Qour

Achestos Identification

This report presents the results of four samples, forwarded by MGT Environmental Consulting Pty Ltd on 24 April 2008, for analysis for asbestos.

1.Introduction:Four 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. ASET14978 / 18158 / 1. Ap 11505.
Approx dimensions 6.0 cm x 5.0 cm x 1.0 cm
The sample consisted of a mixture of clayish soil and stones.
No asbestos detected.

Sample No. 2. ASET14978 / 18158 / 2, Ap 11507,
Approx dimensions 6.0 cm x 5.0 cm x 1.0 cm
The sample consisted of a mixture of sandy clayish soil and stones.
No asbestos detected.

Sample No. 3. ASET14978 / 18158 / 3. Ap 11508.
Approx dimensions 6.0 cm x 5.0 cm x 1.2 cm
The sample consisted of a mixture of clayish soil, stones and fragments of plaster.
No asbestos detected.

Sample No. 4. ASET14978 / 18158 / 4. Ap 11509.
Approx dimensions 6.0 cm x 5.0 cm x 1.0 cm
The sample consisted of a mixture of sandy soil and stones.
No asbestos detected.

Analysed and reported by:



WORLD RECOGNITION
ACCELERATION

Karu Jayasundara, BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory/Approved Identifier

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UNIT 770 KINGSWAY GLEN WAVERLEY VIC 3150 PO BOX 213 GLEN WAVERLEY VIC 3150
PHONE (03) 9574 7647 FAX (03) 9574 9647 EMAIL: pschool@joppers.com.au WEBSITE: www.joppers.com.au

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 385–393. Multiple sclerosis (MS) is a chronic inflammatory disease of the central nervous system (CNS) characterized by multifocal lesions in the CNS. The disease is characterized by a relapsing and remitting course. The disease is characterized by a relapsing and remitting course. The disease is characterized by a relapsing and remitting course.

Sample Receipt Advice

Company name: Coffey Geotechnics Pty Ltd UNAN
Contact name: Daniel Deen
Client job number: GEOTLCOV23462AA
COC number: Not provided
Turn around time: Five day
Date received: Apr 24, 2008
MGT lab reference: 225740

Sample information

- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ All samples were provided chilled.
- ☒ 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.

Contact notes

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

Onur Mehmet on the above number or by e.mail: mehmeto@mgtenv.com.au

Results will be delivered electronically via e.mail to Daniel Deen - daniel_deen@coffey.com.

mgt Sample Receipt

Enquiries

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Tuesday, 22 April 2008 12:44 PM
To: Enquiries; Sample Receipt
Subject: GEOTLCOV23462AA - Additional analysis

Morning

Could you please carry out the analysis for each sample listed below:

CBH3/0.0-0.15	COC #: 13840 Analysis: TCLP for HM (As, Cd, Cr, Pb, Ni) MA663-23 (1031)
CBH4/0.3-0.5	COC #: 13841 Analysis: Asbestos MA664 (1035)
CBH7/2.8-2.9	COC #: 13843 Analysis: TCLP Cr MA702-3 (1054)
CBH9/0.0-0.2	COC #: 13843 Analysis: TCLP Ni MA79303 (1054)
CBH11/0.2-0.3 Ni	COC #: 13844 Analysis: PAH, TCLP for Benzo(a)pyrene and TCLP HM (As, Cd, Cr, Pb, Ni) MA713-2 (1055)
CBH12/1.25-1.45	COC #: 13845 Analysis: TCLP for HM (As, Cd, Cr, Pb, Ni) MA10248 (1092)
CBH13/0.7-1.0	COC #: 13845 Analysis: Asbestos MA10283 (1092)
CBH14/1.0-1.45	COC #: 13845 Analysis: Asbestos MA10283 (1092)
CBH17/0.2-0.3	COC #: 13846 Analysis: Asbestos MA10676 (1100)
CBH21/0.4-0.5	COC #: 20401 Analysis: PAH and TCLP for Benzo(a)pyrene MA10676 (1100)

Regards

DANIEL DEEN
Environmental Scientist
Coffey Environments
1/222 Berkeley Road Unanderra NSW 2526 Australia
T (+61) (2) 4272 6071 F (+61) (2) 4272 6075 M 0407 243 663
www.coffey.com.au/environments

Done 22/4/08

225740 & 225741

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CILDISCL0005

22/04/08

CERTIFICATE OF ANALYSIS

Coffey Geotechnics Pty Ltd
Unit 1/222 Berkeley St
Unanderra
NSW 2526
Site: GEOTLCOV23462AA

Report Number: 225741 Page 1 of 5
Order Number:
Date Received: Apr 22, 2008
Date Sampled: Apr 22, 2008
Date Reported: May 5, 2008
Contact: Daniel Deen

Methods

- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury

Comments

Notes

1. The results in this report supersede any previously corresponded results.
2. All Soil Results are reported on a dry basis.
3. Samples are analysed on an as received basis.
4. LOR's are matrix dependent. Stated LOR's may be raised where sample extracts are diluted due to interferences.

ABBREVIATIONS

mg/kg : milligrams per kilograms, mg/L : milligrams per litre, ppm : parts per million,

LOR : Limit of Reporting

RPD : Relative Percent Difference

CRM : Certified Reference Material

LCS : Laboratory Control Sample

Authorised

Report Number: 225741

Michael Wright
Laboratory Manager
NATA Signatory

Omar Mekki
Client Manager
NATA Signatory

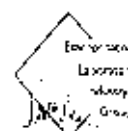
Orlando Scalzo
Chief Organic Chemist
NATA Signatory

Tammy Lakeland
Chief Inorganic Chemist



NATA ACCREDITED
LABORATORY

NATA Accredited
Laboratory Number 1261
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Member

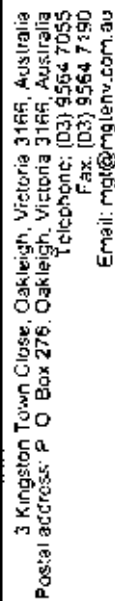


Environmental Consulting Pty. Ltd.

3 Kingston Town Close, Oakleigh, Victoria 3166, Australia
Postal address: P. O. Box 276, Oakleigh, Victoria 3166, Australia
Telephone: (03) 9594 7055
Fax: (03) 9584 7190
Email: mgt@mgtenv.com.au

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID		CBH3_0.0-0.15	CBH7_2.8-2.9	CBH9_0.0-0.2	CBH11_0.2-0.3
	Lab Number		08-Ap11511	08-Ap11512	08-Ap11513	08-Ap11514
	Matrix		TCLP	TCLP	TCLP	TCLP
	Sample Date		Apr 22, 2008	Apr 22, 2008	Apr 22, 2008	Apr 22, 2008
	LOR	Units				
Analysis Type						
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/l	-	-	-	< 0.001
Heavy Metals						
Arsenic	0.01	mg/l	< 0.01	-	-	< 0.01
Cadmium	0.01	mg/l	< 0.01	-	-	< 0.01
Chromium	0.01	mg/l	< 0.01	0.03	-	< 0.01
Lead	0.01	mg/l	< 0.01	-	-	0.01
Nickel	0.01	mg/l	< 0.01	-	0.04	< 0.01

COMMENTS:



Unit 1/222 Berkeley St

Coffey Geotechnics Pty Ltd				Client Sample ID		CBH12_1.25-1.45	CBH21_0.4-0.5
Unit 1/222 Berkeley St				Lab Number		03-Apr11515	03-Apr11516
Unanderra				Matrix		TCLP	TCLP
NSW 2526				Sample Date		Apr 22, 2008	Apr 22, 2008
Analysis Type				LOR	Units		
Polycyclic Aromatic Hydrocarbons							
Benzofluorene				0.001	mg/l	-	< 0.001
Heavy Metals							
Arsenic				0.01	mg/l	< 0.01	-
Cadmium				0.01	mg/l	< 0.01	-
Chromium				0.01	mg/l	< 0.01	-
Lead				0.01	mg/l	0.05	-
Nickel				0.01	mg/l	< 0.01	-

MGI Report No. 225741
Page 3 of 5

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID	RPD	CBH3_0.0-0.15	Method blank
	Lab Number	BATCH	08-Apr11511	Batch
	QA Description		Spike % Recovery	
	Matrix	TCLP	TCLP	TCLP
	Sample Date	Apr 22, 2008	Apr 22, 2008	Apr 22, 2008
	Units		% Recovery	mg/L
Analysis Type				
Heavy Metals				
Arsenic		< 1	103	< 0.01
Cadmium		< 1	96	< 0.01
Chromium		< 1	88	< 0.01
Lead		< 1	93	< 0.01
Nickel		3.1	90	< 0.01

COMMENTS:

Coffey Geotechnics Pty Ltd Unit 1/222 Berkeley St Unanderra NSW 2526	Client Sample ID	RPD	C6H21_0.4-0.5	Method blank
	Lab Number	BATCH	08-Apr11516	Batch
	QA Description		Spike % Recovery	
	Matrix	TCLP	TCLP	TCLP
	Sample Date	Apr 22, 2008	Apr 22, 2008	Apr 22, 2008
	Units		% Recovery	mg/L
Analysis Type				
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene		< 1	102	< 0.001

COMMENTS:



Sample Receipt Advice

Company name: Coffey Geotechnics Pty Ltd UNAN
Contact name: Daniel Deen
Client job number: GEOTLCOV23462AA
COC number: Not provided
Turn around time: Five day
Date received: Apr 24, 2008
MGT lab reference: 225741

Sample information

- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly
- ☒ All samples were provided chilled.
- ☒ 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.

Contact notes

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

Onur Mehmet on the above number or by e.mail: mehmeto@mgtenv.com.au

Results will be delivered electronically via e.mail to Daniel Deen - daniel_deen@coffey.com.

mgt Sample Receipt

Enquiries

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Tuesday, 22 April 2008 12:44 PM
To: Enquiries; Sample Receipt
Subject: GEOTLCOV23462AA - Additional analysis

Morning

Could you please carry out the analysis for each sample listed below:

CBH3/0.0-0.15	COC #: 13840	Analysis: TCLP for HM (As, Cd, Cr, Pb, Ni) MA 665-23 (1031)
CBH4/0.3-0.5	COC #: 13841	Analysis: Asbestos MA 665-23 (1035)
CBH7/2.8-2.9	COC #: 13843	Analysis: TCLP Cr MA 742-23 (1054)
CBH9/0.0-0.2	COC #: 13843	Analysis: TCLP Ni MA 743-23 (1054)
CBH11/0.2-0.3 Ni	COC #: 13844	Analysis: PAH, TCLP for Benzo(a)pyrene and TCLP HM (As, Cd, Cr, Pb, Ni) MA 743-23 (1055)
CBH12/1.25-1.45	COC #: 13845	Analysis: TCLP for HM (As, Cd, Cr, Pb, Ni) MA 102-23 (1092)
CBH13/0.7-1.0	COC #: 13845	Analysis: Asbestos 13
CBH14/1.0-1.45	COC #: 13845	Analysis: Asbestos MA 102-23 (1092)
CBH17/0.2-0.3	COC #: 13846	Analysis: Asbestos MA 106-76 (1101)
CBH21/0.4-0.5	COC #: 20401	Analysis: PAH and TCLP for Benzo(a)pyrene MA 106-76 (1101)

Regards

DANIEL DEEN
Environmental Scientist
Coffey Environments
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www.coffey.com/environments

Daniel 22/4/08

215740 < 225741

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22/04/08

4 April 2008

TEST REPORT

Coffey Environments Pty Ltd
8/12 Mars Road
LANE COVE WEST
NSW 2066

Your Reference: GL23462AA
Report Number: 59759

Attention: Richard Moyle

Dear Richard

The following samples were received from you on the date indicated.

Samples:	Qty.	11 Soils
Date of Receipt of Samples:		26/3/08
Date of Receipt of Instructions:		27/3/08 @ 4:19PM
Date Preliminary Report Emailed:		Not Issued

These samples were analysed in accordance with your written instructions.

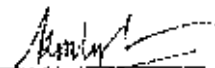
A copy of the instructions is attached with the analytical report.

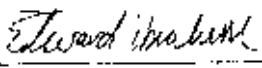
The results and associated quality control are contained in the following pages of this report.
Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully

SGS ENVIRONMENTAL SERVICES


Ly Kim Ha
Senior Organic Chemist


Edward Ibrahim
Laboratory Services Manager



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1000 Pacific Highway
Sydney NSW 1500 Australia

Environmental Services Unit 18, 22 Baddock Street, Alexandria, Australia
T (02) 8584 6400 F (02) 8584 6499

www.au.sgs.com

SGS Environmental Services

BTEX in Soil			
Our Reference	UNITS	59759-1	59759-6
Your Reference		QC109	QC119
Sample Type		Soil	Soil
Date Sampled		18/03/2008	25/03/2008
Date Extracted (BTEX)		1/04/2008	1/04/2008
Date Analysed (BTEX)		1/04/2008	1/04/2008
Benzene	mg/kg	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5
BTEX Surrogate (%)	%	125	124

TRH in soil with C6-C9 by P/T			
Our Reference:	UNITS	59759-1	59759-6
Your Reference	-----	QC109	QC119
Sample Type	-----	Soil	Soil
Date Sampled		18/03/2008	25/03/2008
Date Extracted (TRH C6-C9 P/T)		1/04/2008	1/04/2008
Date Analysed (TRH C6-C9 P/T)		1/04/2008	1/04/2008
TRH C6 - C9 P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		2/04/2008	2/04/2008
Date Analysed (TRH C10-C36)		2/04/2008	2/04/2008
TRH C10 - C14	mg/kg	<20	<20
TRH C15 - C28	mg/kg	<50	<50
TRH C29 - C34	mg/kg	<50	<50



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PAHs in Soil			
Our Reference:	UNITS	59759-1	59759-6
Your Reference	-----	QC109	QC119
Sample Type	-----	Soil	Soil
Date Sampled		18/03/2008	25/03/2008
Date Extracted		2/04/2008	2/04/2008
Date Analysed		3/04/2008	3/04/2008
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1
Total PAHs	mg/kg	<1.55	<1.55
Nitrobenzene-d5	%	91	89
2-Fluorobiphenyl	%	93	89
p -Terphenyl-d14	%	97	97

OC Pesticides in Soil		
Our Reference	UNITS	59759-1
Your Reference		OC109
Sample Type		Soil
Date Sampled		18/03/2008
Date Extracted		2/04/2008
Date Analysed		2/04/2008
HCB	mg/kg	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1
<i>gamma</i> -BHC (Lindane)	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
<i>beta</i> -BHC	mg/kg	<0.1
<i>delta</i> -BHC	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	129

Metals in Soil by ICP-OES		59759-1	59759-2	59759-6
Our Reference:		QC109	QC111	QC119
Your Reference		Soil	Soil	Soil
Sample Type		16/03/2008	19/03/2008	25/03/2008
Date Sampled				
Date Extracted (Metals)		2/04/2008	2/04/2008	2/04/2008
Date Analysed (Metals)		2/04/2008	2/04/2008	2/04/2008
Arsenic	mg/kg	10	4	4
Cadmium	mg/kg	0.3	<0.3	<0.3
Chromium	mg/kg	27	39	19
Copper	mg/kg	18	16	16
Lead	mg/kg	17	8	21
Nickel	mg/kg	16	35	14
Zinc	mg/kg	23	28	47



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Mercury Cold Vapor/Hg Analyser				
Our Reference:	UNITS	59759-1	59759-2	59759-6
Your Reference	-----	QC109	QC111	QC119
Sample Type	-----	Sed	Soil	Soil
Date Sampled		18/03/2008	19/03/2008	25/03/2008
Date Extracted (Mercury)		1/04/2008	1/04/2008	1/04/2008
Date Analysed (Mercury)		1/04/2008	1/04/2008	1/04/2008
Mercury	mg/kg	<0.05	<0.05	0.05

Moisture				
Our Reference	UNITS	59759-1	59759-2	59759-6
Your Reference		QC109	QC111	QC119
Sample Type		Soil	Soil	Soil
Date Sampled		18/03/2008	19/03/2008	25/03/2008
Date Analysed (moisture)		1/04/2008	1/04/2008	1/04/2008
Moisture	%	11	5	13

Method ID	Methodology Summary
SEO-018	BTEX - Determination by purge and trap/ Gas Chromatography with MS Detection.
SEO-017	BTEX/TRH C6-C9 - Determination by Purge and Trap Gas Chromatography with Flame Ionisation Detection (FID) and Photo Ionisation Detection (PID). The surrogate spike used is 1,2,4-trifluorotoluene.
SEO-020	TRH - Determination of Total Recoverable Hydrocarbons by gas chromatography following extraction with DCM/Acetone for solids and DCM for liquids.
SEO-030	PAHs by GC/MS - Determination of Polynuclear Aromatic Hydrocarbons (PAH's) by Gas Chromatography / Mass Spectrometry following extraction with dichloromethane or dichloromethane/acetone. The surrogate spike used is p-Terphenyl-d14.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene
SEM-010	Metals - Determination of various metals by ICP-OES following appropriate sample preparation or digestion process
SEM-005	Mercury - Determination of Mercury by Cold Vapour Generation Atomic Absorption Spectroscopy.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1.5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				01/04/08	59759-1	1/04/2008 1/04/2008	59759-6	01/04/08%
Date Analysed (BTEX)				01/04/08	59759-1	1/04/2008 1/04/2008	59759-6	01/04/08%
Benzene	mg/kg	0.5	SEO-018	<0.5	59759-1	<0.5 <0.5	59759-6	123%
Toluene	mg/kg	0.5	SEO-018	<0.5	59759-1	<0.5 <0.5	59759-6	117%
Ethylbenzene	mg/kg	0.5	SEO-018	<0.5	59759-1	<0.5 <0.5	59759-6	118%
Total Xylenes	mg/kg	1.5	SEO-018	<1.5	59759-1	<1.5 <1.5	59759-6	119%
BTEX Surrogate (%)	%	0	SEO-018	121	59759-1	125 123 RPD: 2	59759-6	109%
QUALITY CONTROL								
TRH in soil with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				01/04/08	59759-1	1/04/2008 1/04/2008	59759-6	01/04/08%
Date Analysed (TRH C6-C9 PT)				01/04/08	59759-1	1/04/2008 1/04/2008	59759-6	01/04/08%
TRH C6 - C9 P&T	mg/kg	20	SEO-017	<20	59759-1	<20 <20	59759-6	129%
Date Extracted (TRH C10-C36)				02/04/08	59759-1	2/04/2008 2/04/2008	59759-6	02/04/08%
Date Analysed (TRH C10-C36)				02/04/08	59759-1	2/04/2008 2/04/2008	59759-6	02/04/08%
TRH C10 - C14	mg/kg	20	SEO-020	<20	59759-1	<20 <20	59759-6	95%
TRH C15 - C28	mg/kg	50	SEO-020	<50	59759-1	<50 <50	59759-6	93%
TRH C29 - C36	mg/kg	50	SEO-020	<50	59759-1	<50 <50	59759-6	85%
QUALITY CONTROL								
PAHs in Soil								
Date Extracted				02/04/08	59759-1	2/04/2008 2/04/2008	59759-6	02/04/08%
Date Analysed				03/04/08	59759-1	3/04/2008 3/04/2008	59759-6	03/04/08%
Naphthalene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	96%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	90%
Acenaphthene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	112%
Fluorene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	96%
Anthracene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	99%
Fluoranthene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	92%
Pyrene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	59759-6	96%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.2	59759-1	<0.2 <0.2	[NR]	[NR]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	59759-1	<0.05 <0.05	59759-6	97%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.1	59759-1	<0.1 <0.1	[NR]	[NR]
Total PAHs	mg/kg	1.55	SEO-030	<1.55	59759-1	<1.55 <1.55	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	99	59759-1	91 93 RPD: 2	59759-6	93%
2-Fluorobiphenyl	%	0	SEO-030	100	59759-1	93 93 RPD: 0	59759-6	93%
p-Terphenyl-d14	%	0	SEO-030	105	59759-1	97 98 RPD: 1	59759-6	100%
QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				02/04/08	[NT]	[NT]	LCS	02/04/08%
Date Analysed				02/04/08	[NT]	[NT]	LCS	02/04/08%
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	122%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	121%
beta-BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
delta-BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	115%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
o,p-DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
trans-Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
cis-Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
trans-Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
p,p-DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	119%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	118%
o,p-DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
o,p-DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
p,p-DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
p,p-DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	116%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	(NT)	(NT)	(NR)	(NR)
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	111	(NT)	(NT)	LCS	115%
Metals in Soil by ICP-OES								
Date Extracted (Metals)				02/04/08	(NT)	(NT)	LCS	02/04/08%
Date Analysed (Metals)				02/04/08	(NT)	(NT)	LCS	02/04/08%
Arsenic	mg/kg	3	SEM-010	<3	(NT)	(NT)	LCS	97%
Cadmium	mg/kg	0.3	SEM-010	<0.3	(NT)	(NT)	LCS	100%
Chromium	mg/kg	0.3	SEM-010	<0.3	(NT)	(NT)	LCS	95%
Copper	mg/kg	0.5	SEM-010	<0.5	(NT)	(NT)	LCS	97%
Lead	mg/kg	1	SEM-010	<1	(NT)	(NT)	LCS	98%
Nickel	mg/kg	0.5	SEM-010	<0.5	(NT)	(NT)	LCS	99%
Zinc	mg/kg	0.5	SEM-010	<0.5	(NT)	(NT)	LCS	97%
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				01/04/08	(NT)	(NT)	LCS	01/04/08%
Date Analysed (Mercury)				01/04/08	(NT)	(NT)	LCS	01/04/08%
Mercury	mg/kg	0.05	SEM-005	<0.05	(NT)	(NT)	LCS	104%
Hold sample-NO test required								
Sample on HOLD				(NT)				
Moisture								
Date Analysed (moisture)				(NT)				
Moisture	%	1	AN002	(NT)				

Result Codes

[INS] : Insufficient Sample for this test
 [NR] : Not Requested
 [NT] : Not tested

(RPD) : Relative Percentage Difference
 * : Not part of NATA Accreditation
 (N/A) : Not Applicable

Report Comments

Date Organics extraction commenced. 01/04/08

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).

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Quality Control Protocol

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

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

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

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

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

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

Quality Acceptance Criteria

Unless otherwise specified in the test method, the following general acceptance criteria apply:

Method Blanks: <LOR
 Duplicates: <5 x LOR: No RPD criteria applied
 >5 x LOR: 0-30% RPD is accepted.
 LCS's: Determined by Control Charts.
 Where control charts have not been developed, the Matrix Spikes criteria apply.
 Matrix Spikes: 70-130% recovery is accepted for metals / inorganics.
 60-140% is accepted for organics.
 Surrogates: 60-130% recovery is accepted for BTEX.
 70-130% recovery is accepted for other organics.



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2 April 2008

TEST REPORT

Coffey Environments Pty Ltd
8/12 Mars Road
LANE COVE WEST
NSW 2066

Your Reference: GL23462AA
Report Number: 59760

Attention: Richard Moyle

Dear Richard

The following samples were received from you on the date indicated.

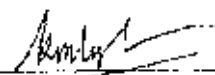
Samples:	Qty.	7 Soils
Date of Receipt of Samples:		26/03/08
Date of Receipt of Instructions:		26/03/08
Date Preliminary Report Emailed:		Not Issued

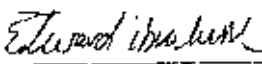
These samples were analysed in accordance with your written instructions.
A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report.
Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully
SGS ENVIRONMENTAL SERVICES


Ly Kim Ha
Senior Organic Chemist


Edward Ibrahim
Laboratory Services Manager



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Page 1 of 7

Inorganics						
Our Reference:	UNITS	59760-1	59760-2	59760-3	59760-4	59760-6
Your Reference	-----	CBH16	CBH13	CBH15	CBH12	CBH8
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Depth		0.3-0.5	0.7-1.0	0.25-1.0	0.2-0.3	0.3-0.4
Date Sampled		19/03/2008	18/03/2008	18/03/2008	17/03/2008	13/03/2008
Date Extracted (pH)		27/03/2008	27/03/2008	27/03/2008	27/03/2008	27/03/2008
Date Analysed (pH)		27/03/2008	27/03/2008	27/03/2008	27/03/2008	27/03/2008
pH 1:5 soil:water 1:5 soil:water	pH Units	7.7	4.7	6.1	5.5	7.6

Inorganics		
Our Reference	UNITS	59760-7
Your Reference	-----	CBH1
Sample Type	-----	Soil
Depth		0.1-0.6
Date Sampled		10/03/2008
Date Extracted (pH)		27/03/2008
Date Analysed (pH)		27/03/2008
pH 1:5 soil:water 1:5 soil:water	pH Units	8.0

Anions in soil	UNITS	59760-1	59760-2	59760-3	59760-4	59760-6
Our Reference:	-----	CBH16	CBH13	CBH15	CBH12	CBH8
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Sample Type		0.3-0.5	0.7-1.0	0.25-1.0	0.2-0.3	0.3-0.4
Depth		19/03/2008	18/03/2008	18/03/2008	17/03/2008	13/03/2008
Date Sampled						
Date Extracted		31/03/08	31/03/2008	31/03/2008	31/03/2008	31/03/2008
Date Analysed		02/04/08	31/03/2008	31/03/2008	31/03/2008	31/03/2008
Chloride, Cl 1:5 soil:water	mg/kg	6.2	290	6.7	17	2.0
Sulphate, SO4 1:5 soil:water	mg/kg	33	46	33	76	39

Anions in soil	UNITS	59760-7
Our Reference:	-----	CBH1
Your Reference	-----	Soil
Sample Type		0.1-0.6
Depth		10/03/2008
Date Sampled		
Date Extracted		31/03/2008
Date Analysed		31/03/2008
Chloride, Cl 1:5 soil:water	mg/kg	6.4
Sulphate, SO4 1:5 soil:water	mg/kg	36

Moisture						
Our Reference:	UNITS	59760-1	59760-2	59760-3	59760-4	59760-6
Your Reference		CBH16	CBH13	CBH15	CBH12	CBH8
Sample Type		Soil	Soil	Soil	Soil	Soil
Depth		0.3-0.5	0.7-1.0	0.25-1.0	0.2-0.3	0.3-0.4
Date Sampled		19/03/2008	18/03/2008	18/03/2008	17/03/2008	13/03/2008
Date Analysed (moisture)		27/03/2008	27/03/2008	27/03/2008	27/03/2008	27/03/2008
Moisture	%	10	10	10	11	7

Moisture		
Our Reference:	UNITS	59760-7
Your Reference		CBH1
Sample Type		Soil
Depth		0.1-0.6
Date Sampled		10/03/2008
Date Analysed (moisture)		27/03/2008
Moisture	%	17

Method ID	Methodology Summary
AN101	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+
SEI-038	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA 20th ED, 4110-B.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1.5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate		
Inorganics						Base + Duplicate + %RPD		
Date Extracted (pH)				(NT)	59760-1	27/03/2008 27/03/2008		
Date Analysed (pH)				(NT)	59760-1	27/03/2008 27/03/2008		
pH 1:5 soil:water 1:5 soil:water	pH Units	0	AN101	(NT)	59760-1	7.7 7.7 RPD: 0		
QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Anions in soil						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted				31/03/08	59760-1	31.03.08 31.03.08	LCS	31/03/08%
Date Analysed				31/03/08	59760-1	02.04.08 02.04.08	LCS	31/03/08%
Chloride, Cl 1:5 soil water	mg/kg	0.5	SEI-038	<0.5	59760-1	6.2 6.0 RPD: 3	LCS	103%
Sulphate, SO ₄ 1:5 soil water	mg/kg	2	SEI-038	<2	59760-1	33 28 RPD: 16	LCS	101%
QUALITY CONTROL	UNITS	LOR	METHOD	Blank				
Hold sample-NO test required								
Sample on HOLD				(NT)				
QUALITY CONTROL	UNITS	LOR	METHOD	Blank				
Moisture								
Date Analysed (moisture)				(NT)				
Moisture	%	1	AN002	(NT)				

Result Codes

[INS]	Insufficient Sample for this test	[RPD]	Relative Percentage Difference
[NR]	Not Requested	*	Not part of NATA Accreditation
[NT]	Not tested	[N/A]	Not Applicable

Report Comments

Date Organics extraction commenced. N/A

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF)

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

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

Quality Acceptance Criteria

Unless otherwise specified in the test method, the following general acceptance criteria apply:

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Duplicates:	<5 x LOR; No RPD criteria applied. >5 x LOR; 0-30% RPD is accepted.
LCS's:	Determined by Control Charts. Where control charts have not been developed, the Matrix Spikes criteria apply.
Matrix Spikes:	70-130% recovery is accepted for metals / inorganics. 60-140% is accepted for organics.
Surrogates:	60-130% recovery is accepted for BTEX. 70-130% recovery is accepted for other organics.



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Appendix E

Data Validation Report

CONTAMINATION ASSESSMENT - SAH Hospital
185 Fox Valley Road, Wahroonga

Coffey Environments Pty Ltd

ACN 06324755 AFN 4590082155



Environmental

SP504371 V1.158
20/06/2018 13:38

QA/QC DATA VALIDATION REPORT

Lot No: GEOTLCOV23-623A Batch: 223642, 223654, 223682, 223756,

223797, 223812, 224130, 224142,

225740, 225747, 225850 and 225959

1. SAMPLE HANDLING

1. Were the sample holding times met?
2. Were the samples properly outbody between the field and receiving the laboratory?
3. Were the samples properly and adequately preserved?
This includes keeping records of field preservation details
4. Were the samples received by the laboratory in good condition?

Yes	No	Comments (if relevant)
☒	☐	
☒	☐	
☒	☐	
☒	☐	

COMMENTS:

Sample Handling was ☒ Satisfactory ☐ Unsatisfactory
☐ Partially Satisfactory

Coffey Environments Pty Ltd

AOY 19062735 A 11/11/2022 115



QATOC DATA VALIDATION REPORT

Job No: 920710018746246 Date: 20230922 222554 202302 220703
202307 220425 202301 220422
202303 220707 202306 220709

1. FIELD QATOC

1. Location of Samples Analyzed	Site: 75 Water: J
2. Number of Days of Sampling	Site: 9 Water: N/A

3. Number and Type of QATOC Samples Collected:

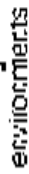
Field/Onsite (all sites) Field/Sat Site	SOIL	WATFP
Field/Onsite (all sites) Field/Sat Site	9/10, 1/10	NA
Field/Onsite (all sites) Field/Sat Site	0	NA
Field/Onsite (all sites) Field/Sat Site	1	NA
Field/Onsite (all sites) Field/Sat Site	2	NA

4. FIELD DUPLICATES

A. Method: Absolute Method of Isotope Ratio MS/MS	Yes	No	Comments
B. Water: DOs with Control?	0	0	
C. Organic: 10% to 100% (10% to 100%)	0	0	
D. Mineral: 10% to 100% (10% to 100%)	0	0	

COMMENTS:

- A. A single test of 100% of all samples were analyzed for DOs (10%). This is not considered significant.
- B. DOs: A single test of 100% of all samples were analyzed for DOs (10%). This is not considered significant.
- C. Organic: A single test of 100% of all samples were analyzed for Organic (10%). This is not considered significant.
- D. Mineral: A single test of 100% of all samples were analyzed for Mineral (10%). This is not considered significant.

[illegible]

environment

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283°23'22" 23.34 53.26°32.

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1700 LINDSEY COURT, SUITE 100, BIRMINGHAM, AL 35202
 205-988-8888 FAX 205-988-8889

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13. The following are the names of the authors of the papers in the special issue:

[illegible]

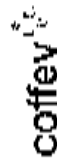
- laboratory procedures. The same water samples were not taken in the same order as before. A review of the survey protocol of sampling was also undertaken, suggesting that some extra caution should be taken by the WWS. The WWS samples were collected in a large bag and sometimes a few days before using a back-siphon (closed) tap. Sampling results were highly suggestive of a low level of bacterial contamination in water. The samples collected here might be

☒ Party System

2. **Identify the main idea of the passage.**

Coffey Environments Pty Ltd

A/CN 287 362 152 A/CN 15 261 102 53



environmental
SOLUTIONS
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MANAGEMENTS

QACQ DATA VALIDATION REPORT

JOB No. 930TLOC00348244 Batch 220652, 220654, 220702, 220703,

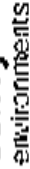
220707, 220725, 224130, 224132,

225040, 225041, 225055 and 225056

- The batch QACQ (batch 224130, several laboratory results for PAH, OCP and PCB reported recoveries ranging between 113% and 128% for the sample CBH-7, 2148 and CBH-6, 2148. PAH is above the upper control limit of 100%. These results can be designated as the concentrations of PAH, OCP and PCB for these samples are below the LOD.
- The batch 224132, several PCB surrogates recorded recoveries of 112% for the sample CBH-6, 2148, 250 and CBH-6, 2148, which is above the upper control limit of 100%. This result can be designated as the concentration of PCB for this sample was below the LOD.
- The batch 220702, several PAH, OCP and PCB surrogates recorded recoveries ranging between 111% and 133% for the sample CBH-7, 220310, CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of PAH, OCP and PCB for these samples were below the LOD.
- The batch 220703, several BTEX surrogates recorded recoveries ranging between 50% and 60% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.
- The batch 220707, several PAH, OCP and PCB surrogates recorded recoveries ranging between 117% and 129% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of PAH, OCP and PCB for these samples were below the LOD.
- The batch 220725, several BTEX surrogates recorded recoveries ranging between 113% and 128% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.
- The batch 225040, several BTEX surrogates recorded recoveries ranging between 113% and 128% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.
- The batch 225041, several BTEX surrogates recorded recoveries ranging between 113% and 128% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.
- The batch 225055, several BTEX surrogates recorded recoveries ranging between 113% and 128% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.
- The batch 225056, several BTEX surrogates recorded recoveries ranging between 113% and 128% for the sample CBH-7, 220310, CBH-7, 220310 and CBH-7, 220310. These results can be designated as the concentrations of BTEX for these samples were below the LOD.

The above data validation report was ☒ Satisfactory ☐ Unsatisfactory ☒ Partially Satisfactory

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Streptococcine

[illegible][illegible]

2017-2018 2018-2019 2019-2020

参考文献

1. Data Description
2. Data Usage with respect to various sections and factors (if any); Terms
3. Data Use Case

1. [4] 1.

[illegible]

- [illegible]

Figure 1

13

2017

251

NAME: _____

Date	Fertilizer			Seed			Planting			Harvest			Total		
	Rate	Area	Weight	Rate	Area	Weight	Rate	Area	Weight	Rate	Area	Weight	Rate	Area	Weight
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CONFIDENTIAL

Appendix F Site Photographs

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

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Photo 1: Looking east from the north western corner of the proposed Building 3 towards the retention basin centrally located within the study area

Photo 2: Looking west along the fill batter slope located immediately south of the proposed Building 3 southern boundary. The slope was covered with grass cuttings and overgrown vegetation with fragments of brick and concrete also noted



Photo 3: The footing access area for the basement of Building 4. Note the shale located immediately beneath the footings and other service pipes/cables





Photo 4: Looking south near the north western corner of the proposed Building 2 study area. Note the liquid oxygen tank located west of the study area.



Photo 5: The retention pond located north of the car park and the proposed Building 2 footprint.

Photo 6: Looking east towards the car parking area and proposed Building 2 footprint. Note the gradual slope of the study area from the higher southern boundary to the lower northern boundary





Photo 7 (Above): Looking northwest towards the car parking area of the proposed Building 1 footprint.



Photo 8 (Left): Looking north along the car parking area of the proposed Building 1 footprint.