Appendix C
Laboratory Results: Summary Tables

Overarching Remedial Action Plan
Haymarket Precinct, Darling Harbour, Sydney NSW

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
Sample_Depth_Range																	
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011
Matrix_Description																	
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1

Chem_Group	ChemName	Units	LOR	HIL																
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-
Metals	Arsenic	mg/kg	2 / 3	400	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-
	Cadmium	mg/kg	0.3 / 0.4	80	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-
	Chromium	mg/kg	0.3 / 5	400	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-
	Copper	mg/kg	0.5	4000	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-
	Lead	mg/kg	1 / 5	1200	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-
	Mercury	mg/kg	0.05	60	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-
	Nickel	mg/kg	0.5 / 2.5 / 5	2400	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-
	Zinc	mg/kg	0.5 / 5	28000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-
BTEX	Benzene	mg/kg	0.1 / 0.5	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	50	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Toluene	mg/kg	0.1	130	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Xylene (m & p)	mg/kg	0.2 / 1		<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5		<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	25	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-
TPH	C6 - C9	mg/kg	10 / 20	65	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-
	C10 - C14	mg/kg	20 / 50		-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-
	C15 - C28	mg/kg	50 / 100		-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-
	C29 - C36	mg/kg	50 / 100		-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1000	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5		<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5		<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-
	Anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	4	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1		<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-
	Benzo(b)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5		<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-
	Chrysene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-
	Fluorene	mg/kg	0.1 / 0.5		<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-
	Naphthalene	mg/kg	0.1 / 0.5		<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5		<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-
	Pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	80	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
	2.5	5.5	1-1.1	2.5-2.6													
9/06/2011	17/06/2011	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011
SE100700-1	SE100711-1	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR																	
Inorganics	Moisture	%	0.5	28	25	24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12
Metals	Arsenic	mg/kg	2 / 3	180	7	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12
	Cadmium	mg/kg	0.3 / 0.4	<0.3	0.5	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	17	18	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10
	Copper	mg/kg	0.5	11	120	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63
	Lead	mg/kg	1 / 5	49	170	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47
	Mercury	mg/kg	0.05	0.21	1	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15
	Nickel	mg/kg	0.5 / 2.5 / 5	11	14	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6
	Zinc	mg/kg	0.5 / 5	18	340	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C10 - C14	mg/kg	20 / 50	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C15 - C28	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50
	C29 - C36	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Anthracene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	0.29	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2
	Chrysene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	<0.1	0.6	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7
	Fluorene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3
	Pyrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	4.2	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8
Asbestos	Asbestos	-	-	-	ND	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

Chem_Group	ChemName	Units	LOR	BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				6/06/2011	6/06/2011	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
				SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1
Inorganics	Moisture	%	0.5	-	-	15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13
Metals	Arsenic	mg/kg	2 / 3	-	-	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	-	-	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7
	Copper	mg/kg	0.5	-	-	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320
	Lead	mg/kg	1 / 5	-	-	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190
	Mercury	mg/kg	0.05	-	-	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13
	Zinc	mg/kg	0.5 / 5	-	-	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270
BTEX	Benzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	-	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	-	-	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170
	C29 - C36	mg/kg	50 / 100	-	-	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9
	Chrysene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9
	Naphthalene	mg/kg	0.1 / 0.5	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
Other SVOC	SVOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1

Chem_Group	ChemName	Units	LOR															
Inorganics	Moisture	%	0.5	17	-	10	15	9.1	18	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	7	-	13	6	5	-	3	5	8	4	12	12	4	6	5	<3
	Cadmium	mg/kg	0.3 / 0.4	<0.3	-	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	13	-	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16
	Copper	mg/kg	0.5	18	-	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6
	Lead	mg/kg	1 / 5	32	-	310	23	31	-	220	92	14	13	93	91	96	9	30	15
	Mercury	mg/kg	0.05	1	-	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05
	Nickel	mg/kg	0.5 / 2.5 / 5	3.5	-	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7
	Zinc	mg/kg	0.5 / 5	32	-	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	-	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50
	C29 - C36	mg/kg	50 / 100	<50	-	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	0.3	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.4	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.35	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.2	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1 / 0.5	0.3	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.8	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1 / 0.5	0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.2	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	-	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1 / 0.5	0.8	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.7	-	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8
Asbestos	Asbestos	-	-	-	ND	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
17/04/2012	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012
SE107335-1	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90

Chem_Group	ChemName	Units	LOR												
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	<3	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2
	Cadmium	mg/kg	0.3 / 0.4	0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	22	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7
	Copper	mg/kg	0.5	80	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23
	Lead	mg/kg	1 / 5	24	230	6	51	18	27	19	11	-	16	14	58	44
	Mercury	mg/kg	0.05	0.3	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	38	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3
	Zinc	mg/kg	0.5 / 5	71	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10
	C10 - C14	mg/kg	20 / 50	20	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50
	C15 - C28	mg/kg	50 / 100	2500	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100
	C29 - C36	mg/kg	50 / 100	1700	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	4220	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	0.2	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.1	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	0.7	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.8	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	0.7	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	0.4	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.8	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.5	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	0.3	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.3	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	3.2	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.3	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	11	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
103789-90	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	2.8	4.1	-	<2	-	4.8	-	3.8	16
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	-	-	6.1	<5	-	<5	-	<5	-	21	24
	Copper	mg/kg	0.5	-	-	<5	5	-	75	-	17	-	24	<5
	Lead	mg/kg	1 / 5	-	-	13	7.6	-	5.6	-	40	-	190	63
	Mercury	mg/kg	0.05	-	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	<5	<5	-	210	-	6.3	-	6.7	<5
	Zinc	mg/kg	0.5 / 5	-	-	78	140	-	90	-	26	-	70	30
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	-	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	-	-	ND	D	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-		-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-		-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH119 (2.1-2.3m)	BH120 (0.03-0.13m) A	BH120 (0.03-0.13m)	BH120 (1.0-1.1m)	BH120 (1.5-1.6m) A	BH120 (1.5-1.6m)	BH120 (2.4-2.5m)	BH120 (3.5-3.6m)	BH121 (0.5-0.6m) A	BH121 (0.5-0.6m)	BH121 (3.4-3.5m)
BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103787-103788	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	34	-	4	6.1	-	-	-	-	-	8.7	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	<0.4	<0.4	-	-	-	-	-	<0.4	-
	Chromium	mg/kg	0.3 / 5	35	-	110	6.7	-	-	-	-	-	42	-
	Copper	mg/kg	0.5	96	-	43	51	-	-	-	-	-	130	-
	Lead	mg/kg	1 / 5	530	-	6.2	250	-	-	-	-	-	79	-
	Mercury	mg/kg	0.05	4.9	-	<0.05	0.57	-	-	-	-	-	0.41	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	-	120	<5	-	-	-	-	-	51	-
	Zinc	mg/kg	0.5 / 5	220	-	79	190	-	-	-	-	-	120	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	67	140	<1	<1	8.9	7.5	<1
Asbestos	Asbestos	-	-	-	ND	-	ND	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

Chem_Group	ChemName	Units	LOR	BH121A (0.5-0.6m)	BH121A (1.0-1.1m) A	BH121A (1.0-1.1m)	BH121A (1.5-1.6m)	BH121A (2.5-2.6m)	BH122 (0.5-0.6m)	BH122 (1.5-1.6m)	BH122A (0.5-0.6m)	BH122A (1.0-1.1M)	BH122A (1.5-1.6m) A	BH122A (1.5-1.6m)
				BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
				18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
				103797-99	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	14	-	-	14	-	2.1	-	2.8	-	5.2	4.5
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	-	-	27	-	11	-	7.5	-	11	11
	Copper	mg/kg	0.5	93	-	-	350	-	20	-	29	-	26	26
	Lead	mg/kg	1 / 5	160	-	-	2700	-	35	-	47	-	56	52
	Mercury	mg/kg	0.05	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	-	62	-	8	-	<5	-	<5	<5
	Zinc	mg/kg	0.5 / 5	150	-	-	310	-	60	-	55	-	63	56
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	1300	520	350	<100	<100	<100	<100	-	<100	180
	C29 - C36	mg/kg	50 / 100	<100	810	270	270	<100	<100	<100	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	2135	790	620	<100	<100	<100	<100	-	<100	180
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.7	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	39	21	13	<1	<1	2	<1	-	2.1	3.5
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1
	Chrysene	mg/kg	0.1 / 0.5	0.6	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.9	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7
	Pyrene	mg/kg	0.1 / 0.5	1	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.8	280	160	100	1.6	2.4	13	<1	-	13	24
Asbestos	Asbestos	-	-	ND	-	-	ND	-	ND	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH122A (2.0-2.1m)	BH122A (3.0-3.1m)	BH122A (3.4-3.5m)	BH123 (0.08-0.18m)	BH123 (0.5-0.6m)	BH123 (1.5-1.6m) A	BH123 (1.5-1.6m)	BH123A (0.5-0.6m)	BH123A (1.0-1.1m) A	BH123A (1.0-1.1m)	BH123A (2.0-2.1m)
BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	7.6	-	-	-	-	-	10	<5	<5	6.7
	Copper	mg/kg	0.5	48	6.9	-	-	-	-	-	50	26	32	46
	Lead	mg/kg	1 / 5	140	9.3	-	-	-	-	-	69	36	47	40
	Mercury	mg/kg	0.05	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	-	-	-	-	11	<5	5.3	<5
	Zinc	mg/kg	0.5 / 5	81	<5	-	-	-	-	-	110	51	69	41
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	810	380	<100	140	110	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	220	100	<100	<100	100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	1055	505	<100	140	210	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.8	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	5.2	350	160	2.6	36	18	1
Asbestos	Asbestos	-	-	-	-	-	ND	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
103791-93	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	6.9	2.5	-	13	13	6.8	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	1	0.6	0.4	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	12	<5	-	12	11	8.5	-	-	-	-	-
	Copper	mg/kg	0.5	9.4	<5	-	92	140	59	-	-	-	-	-
	Lead	mg/kg	1 / 5	<5	<5	-	180	120	64	-	-	-	-	-
	Mercury	mg/kg	0.05	0.07	<0.05	-	0.22	0.26	0.23	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	16	12	20	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	13	<5	-	240	170	94	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	-	<1	<1	<1	-	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	-	<50	<50	<50	110	620	630	<50	630
	C15 - C28	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	1300	3800	2700	<100	3200
	C29 - C36	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	220	350	220	160	320
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	-	<100	<100	<100	1630	4770	3550	160	4150
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	-	<1	<1	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	-	4.1	<1	-	-	-	-	-	-
Asbestos	Asbestos	-	-	-	-	ND	ND	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH124 (4.6-4.8m)	BH125 (0.23-0.33m) A	BH125 (0.23-0.33m)	BH125 (1.0-1.1m) A	BH125A (0.5-0.6M) A	BH125A (0.5-0.6M)	BH125A (1.4-1.5M)	BH125A (2.0-2.1M) A	BH125A (2.0-2.1M)	BH125A (3.0-3.1M)	BH126 (0.31-0.41m)	
BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
14/12/2012	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	
103791-93	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	2.9	3.6	5.1	-	<2	16	-	-	-	<2
	Cadmium	mg/kg	0.3 / 0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4
	Chromium	mg/kg	0.3 / 5	-	<5	<5	18	-	<5	15	-	-	-	<5
	Copper	mg/kg	0.5	-	26	39	43	-	5.8	19	-	-	-	15
	Lead	mg/kg	1 / 5	-	99	84	110	-	13	57	-	-	-	33
	Mercury	mg/kg	0.05	-	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	-	<5	<5	5.3	-	<5	9.1	-	-	-	<5
	Zinc	mg/kg	0.5 / 5	-	93	74	77	-	12	220	-	-	-	29
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	660	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	2600	940	740	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	310	530	470	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	3600	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	1.1	15	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.6	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	390	370	9.7	<1	<1	<1	<1	<1	<1	<1
Asbestos	Asbestos	-	-	-	-	-	-	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	0.8	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.9	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

Chem_Group	ChemName	Units	LOR	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
				BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
				12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012
				103787-103788	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.7	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	<5	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-
	Copper	mg/kg	0.5	20	41	560	<5	64	55	28	43	42	<5	-
	Lead	mg/kg	1 / 5	68	95	710	9.7	11	6.8	85	190	160	<5	-
	Mercury	mg/kg	0.05	0.36	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	5.7	7.4	<5	130	120	15	14	15	<5	-
	Zinc	mg/kg	0.5 / 5	95	100	140	<5	71	67	93	140	140	<5	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	250	<100	<100	250	350	190	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	550	860	730	260	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	250	<100	<100	800	1235	945	260	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	38	<1	<1	<1	9.1	160	84	<1	<1
Asbestos	Asbestos	-	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	Other VOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.4	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5
	Chromium	mg/kg	0.3 / 5	12	12	-	21	23	11	-	-	<5	16	7.1
	Copper	mg/kg	0.5	27	27	-	36	24	13	-	-	29	49	130
	Lead	mg/kg	1 / 5	89	96	-	430	200	93	-	-	52	150	410
	Mercury	mg/kg	0.05	0.18	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5
	Nickel	mg/kg	0.5 / 2.5 / 5	5.6	5.8	-	12	8.2	<5	-	-	6.6	14	12
	Zinc	mg/kg	0.5 / 5	78	94	-	410	220	130	-	-	140	430	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.6	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.7	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.6	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.2	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1
	Fluorene	mg/kg	0.1 / 0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.7	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.2	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6.1	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9
Asbestos	Asbestos	-	-	-	ND	ND	-	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	1.8	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

BH129 (1.0-1.1m)	BH129 (1.5-1.6M)	BH129 (2.0-2.1m)	BH129 (2.9-3.0m)	BH129 (3.9-4.0m)	BH129 (5.0-5.1m)	CBH10 (0.5-0.6m)	CBH10 (1.0-1.1m)	CBH10 (1.5-1.6m)	CBH10 (2.0-2.1m)	CBH11 (0.5-0.6m)
BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)
11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012
103787-103788		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	9.6	-	9.3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	0.6	-	1.2	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	6.9	-	10	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	150	-	110	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	370	-	330	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4.3	-	3	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	11	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	1700	-	2200	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	-	<100	<100	<100	<100	470	690	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	-	<100	<100	<100	<100	200	420	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	-	<100	<100	<100	<100	670	1135	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	-	1	<0.5	<0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	-	1.9	<0.5	<0.5	<0.5	8.2	12	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	-	3.4	0.8	<0.5	<0.5	16	20	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	0.6
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	-	4.7	1.1	<1	<1	17	28	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	0.9	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1.9	-	51	6.9	<1	<1	180	260	1.3	<1	6
Asbestos	Asbestos	-	-	ND	ND	-	-	-	-	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-		<LOR	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

CBH11 (1.0-1.1m)	CBH11 (2.0-2.1m)	CBH11 (3.0-3.1m)	CBH5 (0.5-0.6m)	CBH5 (1.0-1.1m)	CBH5 (2.0-2.1m)	CBH5A (1.0-1.1m) 1	CBH5A (2.0-2.1m) 1	CBH5A (3.0-3.1m)	CBH5A (3.5-3.6m)	CBH6 (0.5-0.6m)
CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
26/07/2012	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012
92458-59	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	540	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	820	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	5.1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	11	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	7.5	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	13	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	3.2	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	6.7	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	18	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5
	Fluorene	mg/kg	0.1 / 0.5	2.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	3.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	16	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	18	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	110	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1
Asbestos	Asbestos	-	-	ND	ND	-	ND	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

CBH6 (1.0-1.1m)	CBH6 (1.5-1.6m)	CBH6 (2.0-2.1m)	CBH6 (2.5-2.6m)	CBH7 (0.5-0.6m)	CBH7 (1.0-1.1m)	CBH7 (1.5-1.6m)	CBH7A (1.0-1.1m) 1	CBH7A (2.0-2.1m)	CBH7A (2.9-3.0m)	CBH8 (0.15-0.6m)
CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
89249-50	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparisin Against Health Investigation Levels for High Density Residential Lane Uses (HIL D)

Haymarket Precinct, Sydney NSW

CBH8 (1.5-1.6m)	CBH8 (2.0-2.1m)	CBH8 (2.5-2.6m)	CBH9 (0.5-0.6m)	CBH9 (1.0-1.1m)	CBH9 (1.5-1.6m)	CBH9 (2.5-2.6m)
CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR							
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	68	13	<1
Asbestos	Asbestos	-	-	-	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-

Table 2
Groundwater Analytical Results

Haymarket Precinct, Sydney

Sample ID				BH1	BH12	BH13	MW25	MW30	MW06	MW09	MW25	MW30
LocCode												
Well ID				BH1	BH12	BH13	MW25	MW30	MW06	MW09	MW25	MW30
Sample Date				4/07/2011	12/07/2011	12/07/2011	9/05/2012	9/05/2012	2/08/2012	2/08/2012	2/08/2012	2/08/2012
Chemical Group	**Chemical Name**	**Units**	**LOR**	**95% Trigger Values for Marine Water (ANZECC 2000)**								
Inorganics	pH (Lab)	pH_Units	0		-	-	-	7	7.4	-	-	-	-
	TDS	mg/L	10		-	-	-	18,900	19,700	-	-	-	-
Metals	Arsenic (Filtered)	mg/L	0.002	0.0023	0.002	<0.001	0.008	<0.002	<0.002	-	-	-	-
	Cadmium (Filtered)	mg/L	0.001	0.0055	0.0002	<0.0001	<0.0001	<0.001	<0.001	-	-	-	-
	Chromium Total (Filtered)	mg/L	0.01	0.0044	0.007	<0.001	<0.001	<0.01	<0.01	-	-	-	-
	Copper (Filtered)	mg/L	0.001	0.0013	0.021	0.004	0.003	<0.001	0.001	-	-	-	-
	Lead (Filtered)	mg/L	0.001	0.0044	0.009	<0.001	<0.001	<0.001	<0.001	-	-	-	-
	Mercury	mg/L	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
	Nickel (Filtered)	mg/L	0.01	0.07	0.003	0.003	0.003	<0.01	<0.01	-	-	-	-
	Zinc (Filtered)	mg/L	0.002	0.015	0.53	0.25	0.16	0.011	0.02	-	-	-	-
BTEX	Benzene	µg/L	0.5	500	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1
	Ethylbenzene	µg/L	0.5	5	<0.5	0.5	<0.5	<5	<0.5	<1	<1	<1	<1
	Toluene	µg/L	0.5	180	<0.5	13	<0.5	<5	<0.5	<1	<1	<1	<1
	Xylene (m & p)	µg/L	1	75	<1	3	<1	<10	<1	<2	<2	<2	<2
	Xylene (o)	µg/L	0.5	200	<0.5	1.4	<0.5	<5	<0.5	<1	<1	<1	<1
	Xylene Total	µg/L	1.5	75	<1.5	4	<1.5	<15	<1.5	<3	<3	<3	<3
TPH	TPH C6 - C9	µg/L	40	40	<40	<40	<40	<400	<40	<20	<20	<20	<20
	TPH C10 - C14	µg/L	100	100	<100	<100	<100	<100	<100	<50	<50	<50	<50
	TPH C15 - C28	µg/L	200	200	<200	<200	<200	<200	<200	<100	<100	<100	<100
	TPH C29 - C36	µg/L	200	200	<200	<200	<200	<200	<200	<100	<100	<100	<100
PAH	Acenaphthene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Acenaphthylene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Anthracene	µg/L	0.1	0.4	<0.1	<0.1	<0.1	0.1	<0.1	<1	<1	<1	<1
	Benzo(a)anthracene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Benzo(a)pyrene	µg/L	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Benzo(b)fluoranthene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<2	<2	<2	<2
	Benzo(g,h,i)perylene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Benzo(k)fluoranthene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<2	<2	<2	<2
	Chrysene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Dibenz(a,h)anthracene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Fluoranthene	µg/L	0.1	1.4	<0.1	<0.1	<0.1	0.2	<0.1	<1	<1	<1	<1
	Fluorene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Naphthalene	µg/L	0.1	70	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1
	Phenanthrene	µg/L	0.1	2	<0.1	<0.1	<0.1	0.4	<0.1	<1	<1	<1	<1
	Pyrene	µg/L	0.1		<0.1	<0.1	<0.1	0.1	<0.1	<1	<1	<1	<1
VOC									<LOR				
SVOC									<LOR				

Table 2
Groundwater Analytical Results

Haymarket Precinct, Sydney

Sample ID					MW6	MW9	MW25	MW30	MW120
LocCode									
Well ID					MW6	MW9	MW25	MW30	MW120
Sample Date					10/01/2013	8/01/2013	8/01/2013	9/01/2013	10/01/2013
Chemical Group	**Chemical Name**	**Units**	**LOR**	**95% Trigger Values for Marine Water (ANZECC 2000)**					
Inorganics	pH (Lab)	pH_Units	0		-	-	-	-	-
	TDS	mg/L	10		-	-	-	-	-
Metals	Arsenic (Filtered)	mg/L	0.002	0.0023	<0.001	0.001	0.008	<0.001	0.005
	Cadmium (Filtered)	mg/L	0.001	0.0055	0.0002	<0.0001	0.0001	0.0003	0.0002
	Chromium Total (Filtered)	mg/L	0.01	0.0044	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Filtered)	mg/L	0.001	0.0013	0.001	<0.001	<0.001	0.001	0.002
	Lead (Filtered)	mg/L	0.001	0.0044	<0.001	<0.001	<0.001	<0.001	<0.001
	Mercury	mg/L	0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Nickel (Filtered)	mg/L	0.01	0.07	<0.001	<0.001	0.002	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.002	0.015	<0.005	<0.005	<0.005	0.012	<0.005
BTEX	Benzene	µg/L	0.5	500	<1	<1	<1	<1	<1
	Ethylbenzene	µg/L	0.5	5	<1	<1	<1	<1	<1
	Toluene	µg/L	0.5	180	<1	<1	<1	<1	<1
	Xylene (m & p)	µg/L	1	75	<2	<2	<2	<2	<2
	Xylene (o)	µg/L	0.5	200	<1	<1	<1	<1	<1
	Xylene Total	µg/L	1.5	75	<3	<3	<3	<3	<3
TPH	TPH C6 - C9	µg/L	40	40	<20	<20	<20	<20	30
	TPH C10 - C14	µg/L	100	100	<50	<50	<50	<50	<50
	TPH C15 - C28	µg/L	200	200	<100	<100	<100	<100	<100
	TPH C29 - C36	µg/L	200	200	<100	<100	<100	<100	<100
PAH	Acenaphthene	µg/L	0.1		<0.01	0.02	0.02	<0.01	<0.01
	Acenaphthylene	µg/L	0.1		<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.1	0.4	<0.01	0.05	0.01	0.01	<0.01
	Benzo(a)anthracene	µg/L	0.1		<0.01	0.01	0.01	0.01	<0.01
	Benzo(a)pyrene	µg/L	0.1	0.2	<0.01	<0.01	<0.01	0.01	<0.01
	Benzo(b)fluoranthene	µg/L	0.1		<0.02	<0.02	<0.02	0.02	<0.02
	Benzo(g,h,i)perylene	µg/L	0.1		<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	µg/L	0.1		<0.02	<0.02	<0.02	0.02	<0.02
	Chrysene	µg/L	0.1		<0.05	<0.05	<0.05	<0.05	<0.05
	Dibenz(a,h)anthracene	µg/L	0.1		<0.05	<0.05	<0.05	<0.05	<0.05
	Fluoranthene	µg/L	0.1	1.4	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluorene	µg/L	0.1		<0.05	<0.05	<0.05	<0.05	<0.05
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1		<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthalene	µg/L	0.1	70	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenanthrene	µg/L	0.1	2	<0.05	0.08	<0.05	<0.05	<0.05
	Pyrene	µg/L	0.1		<0.05	<0.05	<0.05	0.08	<0.05
VOC									
SVOC									

Table 3
Groundwater Analytical Results
Comparison of PAH Filtered / Unfiltered Results

	Field_ID	MW6FILT	MW6	MW9FILT	MW9	MW25FILT	MW25	MW30FILT	MW30	MW120FILT	MW120
	Sampled_Date-Time	10/01/2013	10/01/2013	8/01/2013	8/01/2013	8/01/2013	8/01/2013	9/01/2013	9/01/2013	10/01/2013	10/01/2013
	Lab_Report_Number	365010	365010	364828	364798	364828	364798	364911	364911	365010	365010
Chem_Group	ChemName	Units	LOR										
PAH	Acenaphthene	µg/L	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	0.01	<0.01	<0.01
	Benzo(a)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01
	Benzo(a)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
	Benzo(b)&(k)fluoranthene	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
	Benzo(g,h,i)perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Chrysene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dibenz(a,h)anthracene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluoranthene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluorene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthalene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenanthrene	µg/L	0.01	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Pyrene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
	Total PAHs	µg/L	0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	0.13	<0.05	<0.05

Table 4
ASLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
Sampled_Date-Time	10/12/2012	10/12/2012
Lab_Report_Number	363634	363634

Chem_Grd	ChemName	Units	LOR		
Inorganics	pH (Initial)	pH_Units	0.1	9.2	8
	Moisture Content (dried @ 10	%	0.1	6.9 - 7	10 - 11
	pH (after HCL)	pH_Units	0.1	9.4	8.7
Metals	Arsenic	mg/L	0.005	<0.005	<0.005
	Cadmium	mg/L	0.0005	<0.0005	<0.0005
	Chromium	mg/L	0.005	<0.005	<0.005
	Copper	mg/L	0.005	<0.005	<0.005
	Lead	mg/L	0.005	<0.005	<0.005
	Mercury	mg/L	0.0001	<0.0001	<0.0001
	Nickel	mg/L	0.005	<0.005	<0.005
	Zinc	mg/L	0.005	<0.005	<0.005
PAH	Acenaphthene	µg/L	1	-	-
	Acenaphthylene	µg/L	1	-	-
	Anthracene	µg/L	1	-	-
	Benzo(a)anthracene	µg/L	1	-	-
	Benzo(a)pyrene	µg/L	1	-	-
	Benzo(b)&(k)fluoranthene	µg/L	2	-	-
	Benzo(g,h,i)perylene	µg/L	1	-	-
	Chrysene	µg/L	1	-	-
	Dibenz(a,h)anthracene	µg/L	1	-	-
	Fluoranthene	µg/L	1	-	-
	Fluorene	µg/L	1	-	-
	Indeno(1,2,3-c,d)pyrene	µg/L	1	-	-
	Naphthalene	µg/L	1	-	-
	Phenanthrene	µg/L	1	-	-
	Pyrene	µg/L	1	-	-
	Total PAHs	µg/L	2	-	-
TPH	C10 - C14	µg/L	50	-	-
	C15 - C28	µg/L	100	-	-
	C29 - C36	µg/L	100	-	-
	C10 - C36 (Sum of total)	µg/L	100	-	-

Notes:
- Not Analysed

Table 5
TCLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID			BH4	BH10	BH14	BH15	BH17	EB1	EB3	CBH5A_(2.0-2.1m)_1
LocCode										CBH5A
Sample_Depth_Range			2	1.1-1.3	2.5	2.5-2.6	1.0-1.1	1.4-1.5	1-1.1	2.0-2.1
Sampled_Date-Time			6/06/2011	10/06/2011	17/06/2011	21/06/2011	16/06/2011	10/06/2011	10/06/2011	27/07/2012
Matrix_Description										Soil
Analyte Group	**Analyte**	**Units**	**LOR**							
PAH	Leachable benzo(a)pyrene	µg/L	0.1	-	0.1	-	-	-	<0.1	<0.1	1
Metals	Leachable arsenic	mg/L	<0.05	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable Chromium	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable copper	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable lead	mg/L	0.02	0.19	0.76	0.036	0.11	-	-	-	-
	Leachable nickel	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable Mercury	mg/L	0.0001	-	-	-	-	<0.0001	-	-	-

Notes
- Not Analysed

Table 5
TCLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID			CBH7_(1.5-1.6m)	BH101.1-1.3	NBH29 0.9-1.0	CBH9_(1.0-1.1m)	CBH10_(1.0-1.1m)	CBH11_(1.0-1.1m)	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
LocCode			CBH7	BH10	NBH29[1]	CBH9	CBH10	CBH11	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
Sample_Depth_Range			1.5-1.6	1.0-1.3	0.9-1.0	1.0-1.1	1.0-1.1	1.0-1.1		
Sampled_Date-Time			24/07/2012	10/06/2011	17/04/2012	26/07/2012	26/07/2012	26/07/2012	10/12/2012	10/12/2012
Matrix_Description			Soil	Soil	Soil	Soil	Soil	Soil		
Analyte Group	**Analyte**	**Units**	**LOR**							
PAH	Leachable benzo(a)pyrene	µg/L	0.1	1	<0.1	<0.1	<1	<1	<1	-	-
Metals	Leachable arsenic	mg/L	<0.05	-	-	<0.05	-	-	-	<0.005	<0.005
	Leachable cadmium	mg/L	<0.005	-	-	<0.005	-	-	-	<0.0005	<0.0005
	Leachable Chromium	mg/L	<0.005	-	-	-	-	-	-	<0.005	<0.005
	Leachable copper	mg/L	<0.005	-	-	0.27	-	-	-	<0.005	<0.005
	Leachable lead	mg/L	0.02	-	0.76	0.08	-	-	-	<0.005	<0.005
	Leachable nickel	mg/L	<0.005	-	-	0.014	-	-	-	<0.0001	<0.0001
	Leachable zinc	mg/L	<0.005	-	-	9.5	-	-	-	<0.005	<0.005
	Leachable Mercury	mg/L	0.0001	-	-	-	-	-	-	<0.005	<0.005

Notes
- Not Analysed

Table 6
Acid Sulfate Soil Screening Results
Haymarket Precinct, Sydney

Field_ID			NBH18_3.0-3.45	NBH21_3.0-3.45	NBH28_3.0-3.4	NBH30_4.5- 4.9	CBH5A_ASS1_3.5m	CBH6_ASS1_2.5m	CBH6_ASS3_3.5m	CBH8_ASS2 (3.5-3.6m)	CBH8_ASS4(4.5-4.6m)	CBH9_ASS1_3.0m
Sampled_Date-Time							27/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	26/07/2012
Lab_Report_Number			(SE107686)	(SE107815)	(CE77724)	(SE107819)	346177	345835	345835	345664	345664	346021
Chem_Group	**ChemName**	**Units**										
Acid Sulphate Soils Field pH Test	pH-F (Field pH Test)	pH_Units	6.5	6	7.1	8.1	7.5	5.6	7	7.3	7.6	7.7
	pH-FOX (Field pH Peroxide test)	pH_Units	5.1	2	2.1	4.5	5.7	4.5	1.8	1.6	2.2	2.4
	Reaction Ratings	Comment	Low / Slight	High	Volcanic / Vigorous	Volcanic / Vigorous	high	Low	Volcanic	high	Volcanic	high

Notes:
Qualitative Description of Reaction Ratings
Low = Slight Reaction
Medium = Moderate Reaction
High = High Reaction
Volcanic = Very rigorous reaction, gas evolution and heat generation

Table 6
Acid Sulfate Soil Screening Results
Haymarket Precinct, Sydney

Field_ID			CBH9_ASS3_4.0m	CBH9_ASS5_5.0m	CBH10_ASS2_4.0m	CBH11_ASS1_3.5m	CBH11_ASS2_4.0m
Sampled_Date-Time			26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
Lab_Report_Number			346021	346021	346021	346177	346177
Chem_Group	**ChemName**	**Units**					
Acid Sulphate Soils Field pH Test	pH-F (Field pH Test)	pH_Units	8.5	8.6	8	8.2	7.7
	pH-FOX (Field pH Peroxide test)	pH_Units	6.1	7.1	4.7	2.6	3
	Reaction Ratings	Comment	volcanic	low	high	volcanic	high

Notes:
Qualitative Description of Reaction Ratings
Low = Slight Reaction
Medium = Moderate Reaction
High = High Reaction
Volcanic = Very rigorous reaction, gas evolution and heat generation

Table 7
Acid Sulfate Soils - Chromium Reducible Sulfur Analytical Results
Haymarket Precinct, Sydney

Field_ID					BH5_8.5m	BH6_9.5	BH12_4.5	BH13_4.0	BH14_2.5
Sampled_Date-Time					15/06/2011	9/06/2011	10/06/2011	9/06/2011	17/06/2011
Lab_Report_Number					SE100735-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1
Chem_Group	**ChemName**	**Units**	**EQL**	Assessment Criteria					
Chromium Reducible Sulfur	pH KCl ·	pH Units	<0.1	-	7.5	5.2	9.2	8	8.6
	s-TAA pH 6.5	%w/wS	<0.01	-	<0.01	0.02	<0.01	<0.01	<0.01
	TAA pH 6.5	mole H+/t	<5	-	<5	11	<5	<5	<5
	Chromium	% w/w	<0.005	0.03% w/w	<0.005	<0.005	0.028	0.92	0.013
	Reducible Sulfur	mole H+/t	<5	-	<5	<5	17	570	8
	SHCl	% w/w	<0.005	-	NA	NA	NA	NA	NA
	S KCl	% w/w	<0.005	-	NA	NA	NA	NA	NA
	S NAS	% w/w	<0.005	-	NA	NA	NA	NA	NA
	Acid Neutralisation Capacity	% CaCO3	<0.1	-	NA	NA	NA	0.8	NA
	s-ANCBT	% w/w S	<0.01	-	NA	NA	NA	0.26	NA
	a-ANCBT	mole H+/t	<5	-	NA	NA	NA	160	NA
	s-Net Acidity	% w/w S	<0.1	-	<0.01	0.02	0.03	0.74	0.01
	a-Net Acidity	mole H+/t	<5	-	<5	12	16	460	6.7
	Liming Rate	kg CaCO3	<0.1	-	NA	NA	NA	35	NA
	Verification s-Net Acidity	% w/w S		-	NA	NA	NA	0.74	NA
	a-Net Acidity without ANC	mole H+/t	<5	-	<5	12	16	570	6.7
	Liming Rate without ANC	kg CaCO3	<0.1	-	NA	NA	NA	43	NA

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										EB1 / 1.0-1.1	EB1 / 1.4-1.5	EB1 / 2.0-2.1	EB1 / 3.0-3.1	NBH24	NBH24	NBH24	NBH24	CBH5_(0.5-0.6m)	DUP4	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)
LocCode										EB1	EB1	EB1	EB1	NBH24	NBH24	NBH24	NBH24	CBH5	CBH5	CBH5	CBH5	CBH5A	CBH5A
Sample_Depth_Range										1.0-1.1	1.4-1.5	2.0-2.1	3.0-3.1	0.3-0.5	0-0.1	1.5-1.95	3.0-3.45	0.5-0.6	0.5-0.6	1.0-1.1	2.0-2.1	1.0-1.1	2.0-2.1
Sampled_Date-Time										10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	24/04/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	-	-	-	<0.1	-	<0.1	0.4	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							-	-	-	<LOR	-	<LOR	2	<LOR	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			-	-	-	<1	-	<0.2	1.1	<0.2	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				-	-	-	<0.5	-	<0.1	0.3	<0.1	<0.5	0	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	-	-	-	<0.3	-	<0.3	1.4	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	-	-	-	-	<0.1	13	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							-	-	-	-	-	<0.1	<1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	23	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	50	0.3	<0.5	<0.5	<0.5	1.1	<0.5	0.8
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	-	**74**	4.3	<0.05	-	<0.1	**30**	0.2	<0.5	0	<0.5	0.9	<0.5	0.9
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	-	-	-	-	<0.1	38	0.3	<1	<1	<1	1.4	<1	1.4
	Benzo(g,h,i)perylene	mg/kg	0.5							-	-	-	-	-	<0.1	15	0.1	<0.5	<0.5	<0.5	0.6	<0.5	0.5
	Chrysene	mg/kg	0.5							-	-	-	-	-	<0.1	42	0.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7
	Dibenz(a,h)anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	3.1	<0.1	<0.5	0	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							-	-	-	-	-	<0.1	79	0.4	<0.5	0	<0.5	1.8	<0.5	1.6
	Fluorene	mg/kg	0.5							-	-	-	-	-	<0.1	12	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							-	-	-	-	-	<0.1	11	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	-	-	-	-	<0.1	<1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	-	-	-	-	<0.1	120	0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	-	-	-	-	<0.1	110	0.6	<0.5	<0.5	<0.5	1.7	<0.5	1.7
	Total PAHs	mg/kg	1				200		800	-	**1400**	70	3	-	<0.8	**550**	2.7	<1	<1	<1	9.2	<1	7.6
TPH	C6 - C9	mg/kg	10				650		2600	-	<20	<20	<20	-	<20	21	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							-	130	<20	<20	-	<20	62	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							-	4300	290	310	-	<50	2400	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							-	1900	150	140	-	<50	1100	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	-	4620	440	450	-	<120	3562	<120	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	13	6	8	-	<3	<3	16	-	-	-	-	-	-
	Leachable arsenic	mg/L																					
	Cadmium	mg/kg	0.3	20	80		100		400	-	0.5	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	-	-	-	-
	Leachable cadmium	mg/L																					
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	29	15	13	-	4.9	7.6	12	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Copper	mg/kg	0.5							-	98	30	15	-	5.4	8.5	3.4	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Lead	mg/kg	1	100	400		1500		6000	-	540	75	31	-	11	16	14	-	-	-	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	26	6.5	1.9	-	3.6	6.2	4.1	-	-	-	-	-	-
	Leachable nickel	mg/L																					
	Zinc	mg/kg	0.5							-	460	89	22	-	22	33	9.9	-	-	-	-	-	-
	Leachable zinc	mg/L																					
	Mercury	mg/kg	0.05	4	16		50		200	-	1.2	0.22	0.05	-	<0.05	<0.05	<0.05	-	-	-	-	-	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)[2]	CBH7_(1.5-1.6m)	DUP7	CBH7A_(1.0-1.1m)	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)
LocCode										CBH5A	CBH5A	CBH6	CBH6	CBH6	CBH6	CBH6	CBH7	CBH7	CBH7	CBH7A	CBH7A	CBH7A	CBH7A
Sample_Depth_Range										3.0-3.1	3.5-3.6	0.5-0.6	0.5-0.6	1.5-1.6	2.0-2.1	2.5-2.6	0.5-0.6	1.0-1.1	1.5-1.6	2.9-3.0	1.0-1.1	2.0-2.1	2.9-3.0
Sampled_Date-Time										27/07/2012	27/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	133	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	133	<1.5	-	0	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	133	<0.5	-	0	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	0.9	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	-	-	-	-	-	1	-	-	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	1.4	<1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							<0.5	50	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	50	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							<0.5	2.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	0.8	<0.5	0.7	0.9
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	1.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5							<0.5	2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	0.8	<0.5	0.6	0.9
	Total PAHs	mg/kg	1				200		800	<1	9.4	<1	-	<1	<1	<1	<1	<1	39	1.6	<1	1.3	2.3
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable arsenic	mg/L																					
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L																					
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Copper	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable nickel	mg/L																					
	Zinc	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L																					
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	BH101.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	NBH29 0.4-0.5[2]	NBH29 0.9-1.0[2]	NBH29 2.0-2.1[2]	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)
LocCode										CBH8	CBH8	CBH8	CBH8	BH10	BH10	BH10	BH10	NBH29[1]	NBH29[1]	NBH29[1]	CBH9	CBH9	CBH9
Sample_Depth_Range										0.15-0.6	1.5-1.6	2.0-2.1	2.5-2.6	1.0-1.3	2.0	3.0	4.0	0.4-0.5	0.9-1.0	2.0-2.1	0.5-0.6	1.0-1.1	1.5-1.6
Sampled_Date-Time										27/07/2012	24/07/2012	24/07/2012	24/07/2012	10/06/2011	10/06/2011	10/06/2011	10/06/2011	17/04/2012	17/04/2012	17/04/2012	26/07/2012	26/07/2012	26/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	<1.5	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<2	<1	<1	<1	<0.2	<0.2	<0.2	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.2	2.5	<0.1	<0.5	0.9	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.1	4.7	<0.1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.7	13	0.2	<0.5	2.8	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.8	26	0.2	<0.5	5.8	1.1
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	<0.5	<0.5	<0.5	**20**	-	<0.05	2.1	0.5	**16**	0.1	<0.5	6	1.8
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	<1	-
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	<1	<1	<1	-	-	-	-	1.1	26.6	0.3	<1	9.1	2.8
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.5	9.3	<0.1	<0.5	3.7	1.5
	Chrysene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.8	14	0.2	<0.5	4	1.1
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.1	2.5	<0.1	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	-	-	-	-	1.5	53	0.5	<0.5	12	1.6
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.3	5.5	<0.1	<0.5	0.8	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.3	8.1	<0.1	<0.5	2.7	1
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.1	2.6	<0.1	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	3.2	69	0.6	<0.5	8.9	0.6
	Pyrene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	-	-	-	-	1.3	51	0.5	<0.5	11	1.8
	Total PAHs	mg/kg	1				200		800	1.4	<1	<1	<1	**280**	-	<1.75	32	11	**300**	2.3	<1	68	13
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<20	<20	<20	<20	<20	<20	<20	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	22	<20	<20	<20	<20	<20	<20	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	1100	590	<50	120	2500	840	<50	<100	210	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	510	220	<50	52	1700	380	<50	<100	580	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	1632	810	<120	172	4220	1230	<100	<100	790	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	4	-	8	4	<3	4	3	-	-	-
	Leachable arsenic	mg/L												-	-	-	-	-	<0.05	-	-	-	-
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	<0.3	-	<0.3	<0.3	0.3	0.3	<0.3	-	-	-
	Leachable cadmium	mg/L												-	-	-	-	-	<0.005	-	-	-	-
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	11	-	13	13	22	8.9	4.7	-	-	-
	Leachable copper	mg/L												-	-	-	-	-	<0.005	-	-	-	-
	Copper	mg/kg	0.5							-	-	-	-	44	-	4.9	35	80	83	5.5	-	-	-
	Leachable copper	mg/L												-	-	-	-	-	0.27	-	-	-	-
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	260	-	19	150	24	230	6	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	0.76	-			-	0.08	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	7.7	-	1.2	4.7	38	9.6	<0.5	-	-	-
	Leachable nickel	mg/L												-	-	-	-	-	0.014	-	-	-	-
	Zinc	mg/kg	0.5							-	-	-	-	72	-	18	110	71	310	3.5	-	-	-
	Leachable zinc	mg/L												-	-	-	-	-	9.5	-	-	-	-
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	0.13	-	<0.05	0.22	0.3	2.1	<0.05	-	-	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH9_(2.5-2.6m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	DUP5	DUP5A	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	BH12 0.5	BH12 1.0	BH12 1.5
LocCode										CBH9	CBH10	CBH10	CBH10	CBH10	CBH10	CBH10	CBH11	CBH11	CBH11	CBH11	BH12	BH12	BH12
Sample_Depth_Range										2.5-2.6	0.5-0.6	1.0-1.1	1.5-1.6	2.0-2.1	2.0-2.1	2.0-2.1	0.5-0.6	1.0-1.1	2.0-2.1	3.0-3.1	0.5	1.0	1.5
Sampled_Date-Time										26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012	26/07/2012	26/07/2012	10/06/2011	10/06/2011	10/06/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Total BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<25	<1.5	<1.5	<1.5	<1.5	-	-	-
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	-	<1	<2
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	-	<0.5	<1
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	-	<0.3	<3
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	5	<0.5	<0.5	<0.5	<0.1	<0.5	2	<0.5	<0.5	-	-	-
	Acenaphthylene	mg/kg	0.5							<0.5	3.5	0.7	<0.5	<0.5	<0.5	<0.1	<0.5	0.7	<0.5	<0.5	-	-	-
	Anthracene	mg/kg	0.5							<0.5	8.2	12	<0.5	<0.5	<0.5	<0.1	<0.5	5.1	1	<0.5	-	-	-
	Benzo(a)anthracene	mg/kg	0.5							<0.5	16	20	<0.5	<0.5	0.5	0.1	0.6	11	1.8	<0.5	-	-	-
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	10	**19**	<0.5	<0.5	0.5	0.1	0.6	7.5	1.1	<0.5	0.63	**3.2**	**1.9**
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	<1	-	-	-	-	-	<1	-	-			
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	17	28	<1	<1	<1	<0.2	1.1	13	2	<1	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	5.1	11	<0.5	<0.5	<0.5	<0.1	<0.5	3.2	0.5	<0.5	-	-	-
	Chrysene	mg/kg	0.5							<0.5	9.2	13	<0.5	<0.5	<0.5	0.1	0.6	6.7	1.3	<0.5	-	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	-	-	-
	Fluoranthene	mg/kg	0.5							<0.5	37	50	0.6	<0.5	1.2	0.3	1.2	18	3.5	<0.5	-	-	-
	Fluorene	mg/kg	0.5							<0.5	1.9	5.1	<0.5	<0.5	<0.5	<0.1	<0.5	2.7	0.5	<0.5	-	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	4.2	8.6	<0.5	<0.5	<0.5	<0.1	<0.5	3.5	<0.5	<0.5	-	-	-
	Naphthalene	mg/kg	0.5							<0.5	0.6	3.8	<0.5	<0.5	<0.5	<0.1	<0.5	1	<0.5	<0.5	-	-	-
	Phenanthrene	mg/kg	0.5							<0.5	32	42	0.7	<0.5	1	0.3	0.7	16	3.2	<0.5	-	-	-
	Pyrene	mg/kg	0.5							<0.5	31	43	<0.5	<0.5	1	0.3	1.2	18	3.7	<0.5	-	-	-
	Total PAHs	mg/kg	1				200		800	<1	180	**260**	1.3	<1	4.2	-	6	110	19	<1	5.6	29	17
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<20	<20
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<100	<50	<50	<50	<50	-	<20	<20
	C15 - C28	mg/kg	100							<100	470	690	<100	<100	<100	<100	<100	540	<100	<100	-	190	130
	C29 - C36	mg/kg	100							<100	200	420	<100	<100	<100	-	<100	280	<100	<100	-	150	100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	670	1100	<100	<100	<100	-	<100	820	<100	<100	-	340	230
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable arsenic	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	-	-	-	-	-	-	-	0.63	3.2	1.9
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable nickel	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH12 2.0	BH12 3.0	BH23 0.5-0.6	BH23 1.5-1.95	BH23 3-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)
LocCode										BH12	BH12	BH23	BH23	BH23	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)
Sample_Depth_Range										2.0	3.0	0.5-0.6	1.5-1.95	3-3.45								
Sampled_Date-Time										10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil								
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							-	-											
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	-	<0.1	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<0.3	-	<0.3	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							-	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							-	-	0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							-	-	0.3	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.05	<0.05	0.3	0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	-	0.4	0.2	<0.1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							-	-	0.2	0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							-	-	0.3	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							-	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5							-	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							-	-	0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	-	0.2	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	<1.75	<1.75	3.3	1.4	<0.8	<1	<1	<1	<1	<1	<1	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<20	-	<20	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<20	-	<20	<20	<20	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<50	-	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<50	-	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<120	-	<120	<120	<120	<100	<100	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	<0.1	<0.1	<0.1	4.6	<2	-	-	2.8	4.1	-	<2
	Leachable arsenic	mg/L								-	-	-	-	-								
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	<0.1	<0.1	<0.1	<0.4	<0.4	-	-	<0.4	<0.4	-	<0.4
	Leachable cadmium	mg/L								-	-	-	-	-								
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	0.1	<0.1	<0.1	5.6	7	-	-	6.1	<5	-	<5
	Leachable copper	mg/L								-	-	-	-	-								
	Copper	mg/kg	0.5							-	-	0.3	0.2	<0.1	17	23	-	-	<5	5	-	75
	Leachable copper	mg/L								-	-	-	-	-								
	Lead	mg/kg	1	100	400		1500		6000	<0.05	<0.05	0.3	0.1	<0.1	58	44	-	-	13	7.6	-	5.6
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-								
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	0.4	0.2	<0.1	11	7.3	-	-	<5	<5	-	210
	Leachable nickel	mg/L								-	-	-	-	-								
	Zinc	mg/kg	0.5							-	-	0.2	0.1	<0.1	250	280	-	-	78	140	-	90
	Leachable zinc	mg/L								-	-	-	-	-								
	Mercury	mg/kg	0.05	4	16		50		200	-	-	0.3	0.2	<0.1	0.06	0.07	-	-	<0.05	<0.05	-	<0.05

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m)	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)
LocCode										BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m)	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)
Sample_Depth_Range																						
Sampled_Date-Time										12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	-	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160															
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	<1	-	<1	<1	<1	<1	<1	<1	2.2	7.1	15	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	2	4.6	<0.5	<0.5
	Chrysene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	12	27	<0.5	<0.5
	Fluorene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	10	23	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	-	<1	-	<1	<1	<1	<1	<1	<1	13	67	140	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	-	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							-	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							-	<100	-	<100	<100	<100	<100	<100	<100	<100	160	390	<100	<100
	C29 - C36	mg/kg	100							-	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	-	<100	-	<100	<100	<100	<100	<100	<100	<100	160	390	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	4.8	-	3.8	16	34	-	4	6.1	-	-	-	-
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	-
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	<5	-	21	24	35	-	110	6.7	-	-	-	-
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							-	17	-	24	<5	96	-	43	51	-	-	-	-
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	-	40	-	190	63	530	-	6.2	250	-	-	-	-
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	-	6.3	-	6.7	<5	35	-	120	<5	-	-	-	-
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							-	26	-	70	30	220	-	79	190	-	-	-	-
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	-	0.2	-	1.8	0.51	4.9	-	<0.05	0.57	-	-	-	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A
LocCode										BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A
Sample_Depth_Range																						
Sampled_Date-Time										18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Anthracene	mg/kg	0.5							1.1	1.2	<0.5	<0.5	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	0.7	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	0.7	0.8	<0.5	0.5	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							1.4	<1	<1	1.1	39	21	13	<1	<1	2	<1	-	2.1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7
	Chrysene	mg/kg	0.5							0.8	<0.5	<0.5	0.6	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Fluoranthene	mg/kg	0.5							2	2.3	<0.5	0.9	55	30	18	0.8	0.9	2.4	<0.5	-	2.4
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Phenanthrene	mg/kg	0.5							1.2	1.2	<0.5	<0.5	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4
	Pyrene	mg/kg	0.5							1.7	2	<0.5	1	53	31	17	0.8	0.9	2.3	<0.5	-	2.2
	Total PAHs	mg/kg	1				200		800	8.9	7.5	<1	4.8	280	160	100	1.6	2.4	13	<1	-	13
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	1300	520	350	<100	<100	<100	<100	-	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	810	270	270	<100	<100	<100	<100	-	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	2135	790	620	<100	<100	<100	<100	-	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	8.7	-	14	-	-	14	-	2.1	-	2.8	-	5.2
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	-	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	42	-	11	-	-	27	-	11	-	7.5	-	11
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							-	130	-	93	-	-	350	-	20	-	29	-	26
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	-	79	-	160	-	-	2700	-	35	-	47	-	56
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	-	51	-	14	-	-	62	-	8	-	<5	-	<5
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							-	120	-	150	-	-	310	-	60	-	55	-	63
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	-	0.41	-	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
LocCode										BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
Sample_Depth_Range																						
Sampled_Date-Time										13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							2.2	<0.5	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	2.1	<0.5	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							3.5	<1	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							1.1	<0.5	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.5							2	<0.5	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							4.2	<0.5	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							1	<0.5	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							2.7	0.8	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5	<0.5
	Pyrene	mg/kg	0.5							4	<0.5	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5	<0.5
	Total PAHs	mg/kg	1				200		800	24	<1	<1	<1	<1	5.2	350	160	2.6	36	18	1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							180	<100	<100	<100	<100	<100	810	380	<100	140	110	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	<100	220	100	<100	<100	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	180	<100	<100	<100	<100	<100	1055	505	<100	140	210	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	4.5	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3	6.9
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	11	11	7.6	-	-	-	-	-	10	<5	<5	6.7	12
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							26	48	6.9	-	-	-	-	-	50	26	32	46	9.4
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	52	140	9.3	-	-	-	-	-	69	36	47	40	<5
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	<5	<5	<5	-	-	-	-	-	11	<5	5.3	<5	<5
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							56	81	<5	-	-	-	-	-	110	51	69	41	13
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	0.16	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13	0.07

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_	BH125_(0.23-0.33m)
LocCode										BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_	BH125_(0.23-0.33m)
Sample_Depth_Range																						
Sampled_Date-Time										13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	11/12/2012	11/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	-	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	0.6
	Acenaphthylene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18	13
	Anthracene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18	13
	Benzo(a)anthracene	mg/kg	0.5							<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	27	31
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	20	25
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	-	<1	<1	-	-	-	-	-	-	-	33	39
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.8	12
	Chrysene	mg/kg	0.5							<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18	24
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	3.1
	Fluoranthene	mg/kg	0.5							<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	66	65
	Fluorene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2	1.1	15	4.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	9.8
	Naphthalene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18	3.7
	Phenanthrene	mg/kg	0.5							<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9	1.6	87	65
	Pyrene	mg/kg	0.5							<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	54	64
	Total PAHs	mg/kg	1				200		800	<1	-	4.1	<1	-	-	-	-	-	-	-	390	370
TPH	C6 - C9	mg/kg	10				650		2600	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	-	<50	<50	<50	110	620	630	<50	630	660	<50	<50
	C15 - C28	mg/kg	100							<100	-	<100	<100	<100	1300	3800	2700	<100	3200	2600	940	740
	C29 - C36	mg/kg	100							<100	-	<100	<100	<100	220	350	220	160	320	310	530	470
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	-	<100	<100	<100	1630	4770	3550	160	4150	3600	1500	1235
Metals	Arsenic	mg/kg	3	100	400		500		2000	2.5	-	13	13	6.8	-	-	-	-	-	-	2.9	3.6
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	-	1	0.6	0.4	-	-	-	-	-	-	<0.4	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	<5	-	12	11	8.5	-	-	-	-	-	-	<5	<5
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							<5	-	92	140	59	-	-	-	-	-	-	26	39
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	<5	-	180	120	64	-	-	-	-	-	-	99	84
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	<5	-	16	12	20	-	-	-	-	-	-	<5	<5
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							<5	-	240	170	94	-	-	-	-	-	-	93	74
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	<0.05	-	0.22	0.26	0.23	-	-	-	-	-	-	0.21	0.24

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
LocCode										BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
Sample_Depth_Range																						
Sampled_Date-Time										11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.5							0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	4.1	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	3.1	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							1.4	<1	<1	<1	<1	<1	<1	<1	<1	1.6	5.9	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Chrysene	mg/kg	0.5							0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	3.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	7.3	<0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	3.7	<0.5	<0.5
	Pyrene	mg/kg	0.5							1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	5.9	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	9.7	<1	<1	<1	<1	<1	<1	<1	<1	13	38	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	250	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	250	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	5.1	-	<2	16	-	-	-	<2	3.7	<2	3.5	25	<2
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	-	<0.4	<0.4	-	-	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	18	-	<5	15	-	-	-	<5	<5	<5	7.4	<5	<5
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							43	-	5.8	19	-	-	-	15	20	41	560	<5	64
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	110	-	13	57	-	-	-	33	68	95	710	9.7	11
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	5.3	-	<5	9.1	-	-	-	<5	<5	5.7	7.4	<5	130
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							77	-	12	220	-	-	-	29	95	100	140	<5	71
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	0.34	-	<0.05	0.62	-	-	-	0.3	0.36	0.47	5.7	<0.05	<0.05

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)
LocCode										BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)
Sample_Depth_Range																						
Sampled_Date-Time										10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	0.8	15	7.4	<0.5	<0.5	0.6	4.4	1.2	0.7	1.2	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	0.8	12	5.9	<0.5	<0.5	0.7	2.9	1.2	0.9	1.4	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	1.3	20	9.7	<1	<1	1.1	5	2.1	1.6	2.3	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5	1.6	0.9	0.7	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.5							<0.5	0.7	11	5.1	<0.5	<0.5	0.6	3	1.2	0.8	1.2	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							<0.5	1.9	31	16	<0.5	0.5	1.2	8.8	2	1.2	2	<0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5	1.6	0.7	0.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	1.2	21	13	<0.5	<0.5	0.7	11	1.2	<0.5	0.8	<0.5	<0.5
	Pyrene	mg/kg	0.5							<0.5	1.9	28	14	<0.5	<0.5	1.2	7.4	2	1.3	2	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	<1	9.1	160	84	<1	<1	6.1	53	13	7.8	13	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	250	350	190	<100	<100	<100	110	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	550	860	730	260	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	800	1235	945	260	<100	<100	110	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	<2	3.6	5.2	4.4	<2	-	3.4	5.2	-	7.4	4.5	3.5	-
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	<0.4	<0.4	<0.4	-
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	6.3	9.3	7.6	5.5	<5	-	12	12	-	21	23	11	-
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							55	28	43	42	<5	-	27	27	-	36	24	13	-
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	6.8	85	190	160	<5	-	89	96	-	430	200	93	-
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	120	15	14	15	<5	-	5.6	5.8	-	12	8.2	<5	-
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							67	93	140	140	<5	-	78	94	-	410	220	130	-
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	<0.05	0.17	0.55	0.55	<0.05	-	0.18	0.27	-	1.2	1.5	0.54	-

Table 8
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
LocCode										BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
Sample_Depth_Range																			
Sampled_Date-Time										17/12/2012	10/12/2012	10/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
Matrix_Description																			
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**										
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	-	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1.9	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	0.6	<0.5	<0.5	-	3.4	0.8	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	<0.5	0.6	<0.5	<0.5	-	2.9	0.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160											
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	<1	1.1	<1	<1	-	4.7	1.1	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1.4	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							<0.5	<0.5	0.6	<0.5	<0.5	-	3.7	0.7	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							<0.5	<0.5	1	1	1	-	11	1.5	<0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	0.7	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	9.9	0.7	<0.5	<0.5
	Pyrene	mg/kg	0.5							<0.5	<0.5	1	0.9	0.9	-	9.2	1.4	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	<1	<1	4.9	1.9	1.9	-	51	6.9	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	-	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	4.1	4.9	6.9	9.6	-	9.3	-	-	-
	Leachable arsenic	mg/L																	
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	0.5	0.5	0.6	-	1.2	-	-	-
	Leachable cadmium	mg/L																	
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	<5	16	7.1	6.9	-	10	-	-	-
	Leachable copper	mg/L																	
	Copper	mg/kg	0.5							-	29	49	130	150	-	110	-	-	-
	Leachable copper	mg/L																	
	Lead	mg/kg	1	100	400		1500		6000	-	52	150	410	370	-	330	-	-	-
	Leachable lead	mg/L	0.02			5		20											
	Nickel	mg/kg	0.5	40	160		1050		4200	-	6.6	14	12	14	-	11	-	-	-
	Leachable nickel	mg/L																	
	Zinc	mg/kg	0.5							-	140	430	1700	1700	-	2200	-	-	-
	Leachable zinc	mg/L																	
	Mercury	mg/kg	0.05	4	16		50		200	-	0.43	0.68	4.5	4.3	-	3	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
Sample_Depth_Range																	
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011
Matrix_Description																	
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-
Metals	Arsenic	mg/kg	2 / 3	500	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-
	Cadmium	mg/kg	0.3 / 0.4	100	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-
	Chromium	mg/kg	0.3 / 5	500	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-
	Copper	mg/kg	0.5	500	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-
	Lead	mg/kg	1 / 5	1500	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-
	Mercury	mg/kg	0.05	75	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-
	Nickel	mg/kg	0.5 / 2.5 / 5	3000	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-
	Zinc	mg/kg	0.5 / 5	28000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-
BTEX	Benzene	mg/kg	0.1 / 0.5	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	50	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Toluene	mg/kg	0.1	130	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Xylene (m & p)	mg/kg	0.2 / 1		<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5		<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	25	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-
TPH	C6 - C9	mg/kg	10 / 20	65	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-
	C10 - C14	mg/kg	20 / 50		-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-
	C15 - C28	mg/kg	50 / 100		-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-
	C29 - C36	mg/kg	50 / 100		-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1000	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5		<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5		<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-
	Anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	5	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1		<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-
	Benzo(b)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5		<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-
	Chrysene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-
	Fluorene	mg/kg	0.1 / 0.5		<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-
	Naphthalene	mg/kg	0.1 / 0.5		<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5		<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-
	Pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	100	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
	2.5	5.5	1-1.1	2.5-2.6													
9/06/2011	17/06/2011	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011
SE100700-1	SE100711-1	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR																	
Inorganics	Moisture	%	0.5	28	25	24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12
Metals	Arsenic	mg/kg	2 / 3	180	7	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12
	Cadmium	mg/kg	0.3 / 0.4	<0.3	0.5	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	17	18	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10
	Copper	mg/kg	0.5	11	120	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63
	Lead	mg/kg	1 / 5	49	170	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47
	Mercury	mg/kg	0.05	0.21	1	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15
	Nickel	mg/kg	0.5 / 2.5 / 5	11	14	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6
	Zinc	mg/kg	0.5 / 5	18	340	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C10 - C14	mg/kg	20 / 50	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C15 - C28	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50
	C29 - C36	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Anthracene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	0.29	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2
	Chrysene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	<0.1	0.6	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7
	Fluorene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3
	Pyrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	4.2	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8
Asbestos	Asbestos	-	-	-	ND	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

Chem_Group	ChemName	Units	LOR	BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				6/06/2011	6/06/2011	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
				SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1
Inorganics	Moisture	%	0.5	-	-	15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13
Metals	Arsenic	mg/kg	2 / 3	-	-	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	-	-	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7
	Copper	mg/kg	0.5	-	-	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320
	Lead	mg/kg	1 / 5	-	-	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190
	Mercury	mg/kg	0.05	-	-	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13
	Zinc	mg/kg	0.5 / 5	-	-	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270
BTEX	Benzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	-	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	-	-	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170
	C29 - C36	mg/kg	50 / 100	-	-	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9
	Chrysene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9
	Naphthalene	mg/kg	0.1 / 0.5	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
Other SVOC	SVOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1

Chem_Group	ChemName	Units	LOR															
Inorganics	Moisture	%	0.5	17	-	10	15	9.1	18	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	7	-	13	6	5	-	3	5	8	4	12	12	4	6	5	<3
	Cadmium	mg/kg	0.3 / 0.4	<0.3	-	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	13	-	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16
	Copper	mg/kg	0.5	18	-	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6
	Lead	mg/kg	1 / 5	32	-	310	23	31	-	220	92	14	13	93	91	96	9	30	15
	Mercury	mg/kg	0.05	1	-	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05
	Nickel	mg/kg	0.5 / 2.5 / 5	3.5	-	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7
	Zinc	mg/kg	0.5 / 5	32	-	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	-	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50
	C29 - C36	mg/kg	50 / 100	<50	-	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	0.3	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.4	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.35	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.2	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1 / 0.5	0.3	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.8	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1 / 0.5	0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.2	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	-	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1 / 0.5	0.8	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.7	-	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8
Asbestos	Asbestos	-	-	-	ND	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
17/04/2012	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012
SE107335-1	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90

Chem_Group	ChemName	Units	LOR												
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	<3	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2
	Cadmium	mg/kg	0.3 / 0.4	0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	22	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7
	Copper	mg/kg	0.5	80	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23
	Lead	mg/kg	1 / 5	24	230	6	51	18	27	19	11	-	16	14	58	44
	Mercury	mg/kg	0.05	0.3	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	38	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3
	Zinc	mg/kg	0.5 / 5	71	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10
	C10 - C14	mg/kg	20 / 50	20	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50
	C15 - C28	mg/kg	50 / 100	2500	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100
	C29 - C36	mg/kg	50 / 100	1700	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	4220	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	0.2	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.1	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	0.7	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.8	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	0.7	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	0.4	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.8	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.5	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	0.3	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.3	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	3.2	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.3	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	11	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
103789-90	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	2.8	4.1	-	<2	-	4.8	-	3.8	16
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	-	-	6.1	<5	-	<5	-	<5	-	21	24
	Copper	mg/kg	0.5	-	-	<5	5	-	75	-	17	-	24	<5
	Lead	mg/kg	1 / 5	-	-	13	7.6	-	5.6	-	40	-	190	63
	Mercury	mg/kg	0.05	-	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	<5	<5	-	210	-	6.3	-	6.7	<5
	Zinc	mg/kg	0.5 / 5	-	-	78	140	-	90	-	26	-	70	30
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	-	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	-	-	ND	D	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-		-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-		-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH119 (2.1-2.3m)	BH120 (0.03-0.13m) A	BH120 (0.03-0.13m)	BH120 (1.0-1.1m)	BH120 (1.5-1.6m) A	BH120 (1.5-1.6m)	BH120 (2.4-2.5m)	BH120 (3.5-3.6m)	BH121 (0.5-0.6m) A	BH121 (0.5-0.6m)	BH121 (3.4-3.5m)	
BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	
12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	
103787-103788	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	34	-	4	6.1	-	-	-	-	-	8.7	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	<0.4	<0.4	-	-	-	-	-	<0.4	-
	Chromium	mg/kg	0.3 / 5	35	-	110	6.7	-	-	-	-	-	42	-
	Copper	mg/kg	0.5	96	-	43	51	-	-	-	-	-	130	-
	Lead	mg/kg	1 / 5	530	-	6.2	250	-	-	-	-	-	79	-
	Mercury	mg/kg	0.05	4.9	-	<0.05	0.57	-	-	-	-	-	0.41	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	-	120	<5	-	-	-	-	-	51	-
	Zinc	mg/kg	0.5 / 5	220	-	79	190	-	-	-	-	-	120	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.4	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	67	140	<1	<1	8.9	7.5	<1
Asbestos	Asbestos	-	-	-	ND	-	ND	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH121A (0.5-0.6m)	BH121A (1.0-1.1m) A	BH121A (1.0-1.1m)	BH121A (1.5-1.6m)	BH121A (2.5-2.6m)	BH122 (0.5-0.6m)	BH122 (1.5-1.6m)	BH122A (0.5-0.6m)	BH122A (1.0-1.1M)	BH122A (1.5-1.6m) A	BH122A (1.5-1.6m)
BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103797-99	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	14	-	-	14	-	2.1	-	2.8	-	5.2	4.5
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	-	-	27	-	11	-	7.5	-	11	11
	Copper	mg/kg	0.5	93	-	-	350	-	20	-	29	-	26	26
	Lead	mg/kg	1 / 5	160	-	-	2700	-	35	-	47	-	56	52
	Mercury	mg/kg	0.05	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	-	62	-	8	-	<5	-	<5	<5
	Zinc	mg/kg	0.5 / 5	150	-	-	310	-	60	-	55	-	63	56
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	1300	520	350	<100	<100	<100	<100	-	<100	180
	C29 - C36	mg/kg	50 / 100	<100	810	270	270	<100	<100	<100	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	2135	790	620	<100	<100	<100	<100	-	<100	180
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.7	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	39	21	13	<1	<1	2	<1	-	2.1	3.5
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1
	Chrysene	mg/kg	0.1 / 0.5	0.6	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.9	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7
	Pyrene	mg/kg	0.1 / 0.5	1	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.8	280	160	100	1.6	2.4	13	<1	-	13	24
Asbestos	Asbestos	-	-	ND	-	-	ND	-	ND	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH122A (2.0-2.1m)	BH122A (3.0-3.1m)	BH122A (3.4-3.5m)	BH123 (0.08-0.18m)	BH123 (0.5-0.6m)	BH123 (1.5-1.6m) A	BH123 (1.5-1.6m)	BH123A (0.5-0.6m)	BH123A (1.0-1.1m) A	BH123A (1.0-1.1m)	BH123A (2.0-2.1m)
BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	7.6	-	-	-	-	-	10	<5	<5	6.7
	Copper	mg/kg	0.5	48	6.9	-	-	-	-	-	50	26	32	46
	Lead	mg/kg	1 / 5	140	9.3	-	-	-	-	-	69	36	47	40
	Mercury	mg/kg	0.05	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	-	-	-	-	11	<5	5.3	<5
	Zinc	mg/kg	0.5 / 5	81	<5	-	-	-	-	-	110	51	69	41
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	810	380	<100	140	110	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	220	100	<100	<100	100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	1055	505	<100	140	210	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.8	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	5.2	350	160	2.6	36	18	1
Asbestos	Asbestos	-	-	-	-	-	-	ND	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
103791-93	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	6.9	2.5	-	13	13	6.8	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	1	0.6	0.4	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	12	<5	-	12	11	8.5	-	-	-	-	-
	Copper	mg/kg	0.5	9.4	<5	-	92	140	59	-	-	-	-	-
	Lead	mg/kg	1 / 5	<5	<5	-	180	120	64	-	-	-	-	-
	Mercury	mg/kg	0.05	0.07	<0.05	-	0.22	0.26	0.23	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	16	12	20	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	13	<5	-	240	170	94	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	-	<1	<1	<1	-	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	-	<50	<50	<50	110	620	630	<50	630
	C15 - C28	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	1300	3800	2700	<100	3200
	C29 - C36	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	220	350	220	160	320
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	-	<100	<100	<100	1630	4770	3550	160	4150
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	-	<1	<1	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	-	4.1	<1	-	-	-	-	-	-
Asbestos	Asbestos	-	-	-	-	ND	ND	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH124 (4.6-4.8m)	BH125 (0.23-0.33m) A	BH125 (0.23-0.33m)	BH125 (1.0-1.1m) A	BH125A (0.5-0.6M) A	BH125A (0.5-0.6M)	BH125A (1.4-1.5M)	BH125A (2.0-2.1M) A	BH125A (2.0-2.1M)	BH125A (3.0-3.1M)	BH126 (0.31-0.41m)	
BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
14/12/2012	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	
103791-93	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	2.9	3.6	5.1	-	<2	16	-	-	-	<2
	Cadmium	mg/kg	0.3 / 0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4
	Chromium	mg/kg	0.3 / 5	-	<5	<5	18	-	<5	15	-	-	-	<5
	Copper	mg/kg	0.5	-	26	39	43	-	5.8	19	-	-	-	15
	Lead	mg/kg	1 / 5	-	99	84	110	-	13	57	-	-	-	33
	Mercury	mg/kg	0.05	-	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	-	<5	<5	5.3	-	<5	9.1	-	-	-	<5
	Zinc	mg/kg	0.5 / 5	-	93	74	77	-	12	220	-	-	-	29
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	660	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	2600	940	740	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	310	530	470	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	3600	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	1.1	15	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.6	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	390	370	9.7	<1	<1	<1	<1	<1	<1	<1
Asbestos	Asbestos	-	-	-	-	-	-	-	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	0.8	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.9	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	
BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	
12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	
103787-103788	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786	

Chem_Group	ChemName	Units	LOR											
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.7	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	<5	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-
	Copper	mg/kg	0.5	20	41	560	<5	64	55	28	43	42	<5	-
	Lead	mg/kg	1 / 5	68	95	710	9.7	11	6.8	85	190	160	<5	-
	Mercury	mg/kg	0.05	0.36	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	5.7	7.4	<5	130	120	15	14	15	<5	-
	Zinc	mg/kg	0.5 / 5	95	100	140	<5	71	67	93	140	140	<5	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	250	<100	<100	250	350	190	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	550	860	730	260	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	250	<100	<100	800	1235	945	260	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	38	<1	<1	<1	9.1	160	84	<1	<1
Asbestos	Asbestos	-	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	Other VOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.4	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5
	Chromium	mg/kg	0.3 / 5	12	12	-	21	23	11	-	-	<5	16	7.1
	Copper	mg/kg	0.5	27	27	-	36	24	13	-	-	29	49	130
	Lead	mg/kg	1 / 5	89	96	-	430	200	93	-	-	52	150	410
	Mercury	mg/kg	0.05	0.18	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5
	Nickel	mg/kg	0.5 / 2.5 / 5	5.6	5.8	-	12	8.2	<5	-	-	6.6	14	12
	Zinc	mg/kg	0.5 / 5	78	94	-	410	220	130	-	-	140	430	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.6	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.7	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.6	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.2	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1
	Fluorene	mg/kg	0.1 / 0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.7	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.2	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6.1	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9
Asbestos	Asbestos	-	-	-	ND	ND	-	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	1.8	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

BH129 (1.0-1.1m)	BH129 (1.5-1.6M)	BH129 (2.0-2.1m)	BH129 (2.9-3.0m)	BH129 (3.9-4.0m)	BH129 (5.0-5.1m)	CBH10 (0.5-0.6m)	CBH10 (1.0-1.1m)	CBH10 (1.5-1.6m)	CBH10 (2.0-2.1m)	CBH11 (0.5-0.6m)
BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)
11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012
103787-103788		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	9.6	-	9.3	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	0.6	-	1.2	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	6.9	-	10	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	150	-	110	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	370	-	330	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4.3	-	3	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	11	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	1700	-	2200	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	-	<100	<100	<100	<100	470	690	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	-	<100	<100	<100	<100	200	420	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	-	<100	<100	<100	<100	670	1135	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	-	1	<0.5	<0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	-	1.9	<0.5	<0.5	<0.5	8.2	12	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	-	3.4	0.8	<0.5	<0.5	16	20	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	0.6
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	-	4.7	1.1	<1	<1	17	28	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	0.9	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1.9	-	51	6.9	<1	<1	180	260	1.3	<1	6
Asbestos	Asbestos	-	-	ND	ND	-	-	-	-	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-		<LOR	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

CBH11 (1.0-1.1m)	CBH11 (2.0-2.1m)	CBH11 (3.0-3.1m)	CBH5 (0.5-0.6m)	CBH5 (1.0-1.1m)	CBH5 (2.0-2.1m)	CBH5A (1.0-1.1m) 1	CBH5A (2.0-2.1m) 1	CBH5A (3.0-3.1m)	CBH5A (3.5-3.6m)	CBH6 (0.5-0.6m)
CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
26/07/2012	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012
92458-59	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	540	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	820	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	5.1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	11	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	7.5	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	13	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	3.2	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	6.7	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	18	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5
	Fluorene	mg/kg	0.1 / 0.5	2.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	3.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	16	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	18	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	110	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1
Asbestos	Asbestos	-	-	ND	ND	-	ND	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

CBH6 (1.0-1.1m)	CBH6 (1.5-1.6m)	CBH6 (2.0-2.1m)	CBH6 (2.5-2.6m)	CBH7 (0.5-0.6m)	CBH7 (1.0-1.1m)	CBH7 (1.5-1.6m)	CBH7A (1.0-1.1m) 1	CBH7A (2.0-2.1m)	CBH7A (2.9-3.0m)	CBH8 (0.15-0.6m)
CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
89249-50	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 9
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL F)

Haymarket Precinct, Sydney NSW

CBH8 (1.5-1.6m)	CBH8 (2.0-2.1m)	CBH8 (2.5-2.6m)	CBH9 (0.5-0.6m)	CBH9 (1.0-1.1m)	CBH9 (1.5-1.6m)	CBH9 (2.5-2.6m)
CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR							
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	68	13	<1
Asbestos	Asbestos	-	-	-	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
Sample_Depth_Range																	
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011
Matrix_Description																	
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1

Chem_Group	ChemName	Units	LOR	HIL																
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-
Metals	Arsenic	mg/kg	2 / 3	200	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-
	Cadmium	mg/kg	0.3 / 0.4	40	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-
	Chromium	mg/kg	0.3 / 5	200	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-
	Copper	mg/kg	0.5	2000	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-
	Lead	mg/kg	1 / 5	600	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-
	Mercury	mg/kg	0.05	30	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-
	Nickel	mg/kg	0.5 / 2.5 / 5	600	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-
	Zinc	mg/kg	0.5 / 5	14000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-
BTEX	Benzene	mg/kg	0.1 / 0.5	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	50	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Toluene	mg/kg	0.1	130	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Xylene (m & p)	mg/kg	0.2 / 1		<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5		<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	25	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-
TPH	C6 - C9	mg/kg	10 / 20	65	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-
	C10 - C14	mg/kg	20 / 50		-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-
	C15 - C28	mg/kg	50 / 100		-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-
	C29 - C36	mg/kg	50 / 100		-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1000	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5		<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5		<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-
	Anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	2	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1		<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-
	Benzo(b)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1		-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5		<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-
	Chrysene	mg/kg	0.1 / 0.5		<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5		<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-
	Fluorene	mg/kg	0.1 / 0.5		<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-
	Naphthalene	mg/kg	0.1 / 0.5		<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5		<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-
	Pyrene	mg/kg	0.1 / 0.5		<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	40	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
	2.5	5.5	1-1.1	2.5-2.6													
9/06/2011	17/06/2011	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011
SE100700-1	SE100711-1	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR																	
Inorganics	Moisture	%	0.5	28	25	24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12
Metals	Arsenic	mg/kg	2 / 3	180	7	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12
	Cadmium	mg/kg	0.3 / 0.4	<0.3	0.5	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	17	18	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10
	Copper	mg/kg	0.5	11	120	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63
	Lead	mg/kg	1 / 5	49	170	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47
	Mercury	mg/kg	0.05	0.21	1	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15
	Nickel	mg/kg	0.5 / 2.5 / 5	11	14	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6
	Zinc	mg/kg	0.5 / 5	18	340	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C10 - C14	mg/kg	20 / 50	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20
	C15 - C28	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50
	C29 - C36	mg/kg	50 / 100	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Anthracene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	0.29	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2
	Chrysene	mg/kg	0.1 / 0.5	<0.1	0.3	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	<0.1	0.6	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7
	Fluorene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3
	Pyrene	mg/kg	0.1 / 0.5	<0.1	0.8	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	4.2	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8
Asbestos	Asbestos	-	-	-	ND	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

Chem_Group	ChemName	Units	LOR	BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
				6/06/2011	6/06/2011	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
				SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1
Inorganics	Moisture	%	0.5	-	-	15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13
Metals	Arsenic	mg/kg	2 / 3	-	-	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	-	-	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7
	Copper	mg/kg	0.5	-	-	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320
	Lead	mg/kg	1 / 5	-	-	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190
	Mercury	mg/kg	0.05	-	-	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13
	Zinc	mg/kg	0.5 / 5	-	-	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270
BTEX	Benzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	-	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	-	-	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	-	-	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170
	C29 - C36	mg/kg	50 / 100	-	-	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9
	Chrysene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9
	Naphthalene	mg/kg	0.1 / 0.5	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-
Other SVOC	SVOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23 0.5-0.6	BH23 1.5-1.95	BH23 3-3.45	BH25 0.5-0.6	BH25 1.5-1.7	BH25 4.5-4.9	BH26 Surface	BH27 1.5-1.9	BH27 3.0-3.4	BH27 4.5-4.9
EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1

Chem_Group	ChemName	Units	LOR															
Inorganics	Moisture	%	0.5	17	-	10	15	9.1	18	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	7	-	13	6	5	-	3	5	8	4	12	12	4	6	5	<3
	Cadmium	mg/kg	0.3 / 0.4	<0.3	-	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	13	-	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16
	Copper	mg/kg	0.5	18	-	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6
	Lead	mg/kg	1 / 5	32	-	310	23	31	-	220	92	14	13	93	91	96	9	30	15
	Mercury	mg/kg	0.05	1	-	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05
	Nickel	mg/kg	0.5 / 2.5 / 5	3.5	-	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7
	Zinc	mg/kg	0.5 / 5	32	-	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TPH	C6 - C9	mg/kg	10 / 20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	-	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50
	C29 - C36	mg/kg	50 / 100	<50	-	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	0.3	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.4	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.35	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.2	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1
	Chrysene	mg/kg	0.1 / 0.5	0.3	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.8	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1
	Fluorene	mg/kg	0.1 / 0.5	0.1	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.2	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	-	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1
	Pyrene	mg/kg	0.1 / 0.5	0.8	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.7	-	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8
Asbestos	Asbestos	-	-	-	ND	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
17/04/2012	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012
SE107335-1	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90

Chem_Group	ChemName	Units	LOR												
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	<3	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2
	Cadmium	mg/kg	0.3 / 0.4	0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	22	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7
	Copper	mg/kg	0.5	80	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23
	Lead	mg/kg	1 / 5	24	230	6	51	18	27	19	11	-	16	14	58	44
	Mercury	mg/kg	0.05	0.3	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	38	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3
	Zinc	mg/kg	0.5 / 5	71	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10
	C10 - C14	mg/kg	20 / 50	20	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50
	C15 - C28	mg/kg	50 / 100	2500	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100
	C29 - C36	mg/kg	50 / 100	1700	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	4220	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	0.2	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.1	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	0.7	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.8	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	0.7	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	0.4	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.8	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.5	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	0.3	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.3	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	3.2	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.3	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	11	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
103789-90	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	2.8	4.1	-	<2	-	4.8	-	3.8	16
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	-	-	6.1	<5	-	<5	-	<5	-	21	24
	Copper	mg/kg	0.5	-	-	<5	5	-	75	-	17	-	24	<5
	Lead	mg/kg	1 / 5	-	-	13	7.6	-	5.6	-	40	-	190	63
	Mercury	mg/kg	0.05	-	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	<5	<5	-	210	-	6.3	-	6.7	<5
	Zinc	mg/kg	0.5 / 5	-	-	78	140	-	90	-	26	-	70	30
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	-	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	-	<1	-	<1	<1
Asbestos	Asbestos	-	-	ND	-	-	-	-	ND	D	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-		-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-		-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-		-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH119 (2.1-2.3m)	BH120 (0.03-0.13m) A	BH120 (0.03-0.13m)	BH120 (1.0-1.1m)	BH120 (1.5-1.6m) A	BH120 (1.5-1.6m)	BH120 (2.4-2.5m)	BH120 (3.5-3.6m)	BH121 (0.5-0.6m) A	BH121 (0.5-0.6m)	BH121 (3.4-3.5m)
BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103787-103788	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	34	-	4	6.1	-	-	-	-	-	8.7	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	<0.4	<0.4	-	-	-	-	-	<0.4	-
	Chromium	mg/kg	0.3 / 5	35	-	110	6.7	-	-	-	-	-	42	-
	Copper	mg/kg	0.5	96	-	43	51	-	-	-	-	-	130	-
	Lead	mg/kg	1 / 5	530	-	6.2	250	-	-	-	-	-	79	-
	Mercury	mg/kg	0.05	4.9	-	<0.05	0.57	-	-	-	-	-	0.41	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	-	120	<5	-	-	-	-	-	51	-
	Zinc	mg/kg	0.5 / 5	220	-	79	190	-	-	-	-	-	120	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	160	390	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	67	140	<1	<1	8.9	7.5	<1
Asbestos	Asbestos	-	-	-	ND	-	ND	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	<LOR	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH121A (0.5-0.6m)	BH121A (1.0-1.1m) A	BH121A (1.0-1.1m)	BH121A (1.5-1.6m)	BH121A (2.5-2.6m)	BH122 (0.5-0.6m)	BH122 (1.5-1.6m)	BH122A (0.5-0.6m)	BH122A (1.0-1.1M)	BH122A (1.5-1.6m) A	BH122A (1.5-1.6m)	
BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	
103797-99	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93	

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	14	-	-	14	-	2.1	-	2.8	-	5.2	4.5
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	-	-	27	-	11	-	7.5	-	11	11
	Copper	mg/kg	0.5	93	-	-	350	-	20	-	29	-	26	26
	Lead	mg/kg	1 / 5	160	-	-	2700	-	35	-	47	-	56	52
	Mercury	mg/kg	0.05	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	-	62	-	8	-	<5	-	<5	<5
	Zinc	mg/kg	0.5 / 5	150	-	-	310	-	60	-	55	-	63	56
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	1300	520	350	<100	<100	<100	<100	-	<100	180
	C29 - C36	mg/kg	50 / 100	<100	810	270	270	<100	<100	<100	<100	-	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	2135	790	620	<100	<100	<100	<100	-	<100	180
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.7	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	39	21	13	<1	<1	2	<1	-	2.1	3.5
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1
	Chrysene	mg/kg	0.1 / 0.5	0.6	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.9	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7
	Pyrene	mg/kg	0.1 / 0.5	1	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4.8	280	160	100	1.6	2.4	13	<1	-	13	24
Asbestos	Asbestos	-	-	ND	-	-	ND	-	ND	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-		-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-		-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH122A (2.0-2.1m)	BH122A (3.0-3.1m)	BH122A (3.4-3.5m)	BH123 (0.08-0.18m)	BH123 (0.5-0.6m)	BH123 (1.5-1.6m) A	BH123 (1.5-1.6m)	BH123A (0.5-0.6m)	BH123A (1.0-1.1m) A	BH123A (1.0-1.1m)	BH123A (2.0-2.1m)
BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	7.6	-	-	-	-	-	10	<5	<5	6.7
	Copper	mg/kg	0.5	48	6.9	-	-	-	-	-	50	26	32	46
	Lead	mg/kg	1 / 5	140	9.3	-	-	-	-	-	69	36	47	40
	Mercury	mg/kg	0.05	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	-	-	-	-	11	<5	5.3	<5
	Zinc	mg/kg	0.5 / 5	81	<5	-	-	-	-	-	110	51	69	41
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	810	380	<100	140	110	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	220	100	<100	<100	100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	1055	505	<100	140	210	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.8	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	5.2	350	160	2.6	36	18	1
Asbestos	Asbestos	-	-	-	-	-	-	ND	ND	-	-	ND	ND	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
103791-93	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	6.9	2.5	-	13	13	6.8	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	1	0.6	0.4	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	12	<5	-	12	11	8.5	-	-	-	-	-
	Copper	mg/kg	0.5	9.4	<5	-	92	140	59	-	-	-	-	-
	Lead	mg/kg	1 / 5	<5	<5	-	180	120	64	-	-	-	-	-
	Mercury	mg/kg	0.05	0.07	<0.05	-	0.22	0.26	0.23	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	16	12	20	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	13	<5	-	240	170	94	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	-	<1	<1	<1	-	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	-	<50	<50	<50	110	620	630	<50	630
	C15 - C28	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	1300	3800	2700	<100	3200
	C29 - C36	mg/kg	50 / 100	<100	<100	-	<100	<100	<100	220	350	220	160	320
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	-	<100	<100	<100	1630	4770	3550	160	4150
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	-	<1	<1	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	-	4.1	<1	-	-	-	-	-	-
Asbestos	Asbestos	-	-	-	-	ND	ND	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH124 (4.6-4.8m)	BH125 (0.23-0.33m) A	BH125 (0.23-0.33m)	BH125 (1.0-1.1m) A	BH125A (0.5-0.6M) A	BH125A (0.5-0.6M)	BH125A (1.4-1.5M)	BH125A (2.0-2.1M) A	BH125A (2.0-2.1M)	BH125A (3.0-3.1M)	BH126 (0.31-0.41m)	
BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
14/12/2012	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	
103791-93	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	2.9	3.6	5.1	-	<2	16	-	-	-	<2
	Cadmium	mg/kg	0.3 / 0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4
	Chromium	mg/kg	0.3 / 5	-	<5	<5	18	-	<5	15	-	-	-	<5
	Copper	mg/kg	0.5	-	26	39	43	-	5.8	19	-	-	-	15
	Lead	mg/kg	1 / 5	-	99	84	110	-	13	57	-	-	-	33
	Mercury	mg/kg	0.05	-	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	-	<5	<5	5.3	-	<5	9.1	-	-	-	<5
	Zinc	mg/kg	0.5 / 5	-	93	74	77	-	12	220	-	-	-	29
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	660	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	2600	940	740	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	310	530	470	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	3600	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	1.1	15	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.6	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	390	370	9.7	<1	<1	<1	<1	<1	<1	<1
Asbestos	Asbestos	-	-	-	-	-	-	-	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	<LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	0.8	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.9	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	<LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	
BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	
12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	
103787-103788	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786	

Chem_Group	ChemName	Units	LOR											
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.7	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	<5	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-
	Copper	mg/kg	0.5	20	41	560	<5	64	55	28	43	42	<5	-
	Lead	mg/kg	1 / 5	68	95	710	9.7	11	6.8	85	190	160	<5	-
	Mercury	mg/kg	0.05	0.36	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	5.7	7.4	<5	130	120	15	14	15	<5	-
	Zinc	mg/kg	0.5 / 5	95	100	140	<5	71	67	93	140	140	<5	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	250	<100	<100	250	350	190	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	550	860	730	260	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	250	<100	<100	800	1235	945	260	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	38	<1	<1	<1	9.1	160	84	<1	<1
Asbestos	Asbestos	-	-	-	ND	-	-	-	ND	ND	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
	Other VOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	-	-	-	<LOR	-	-	-	-	-	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3.4	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5
	Chromium	mg/kg	0.3 / 5	12	12	-	21	23	11	-	-	<5	16	7.1
	Copper	mg/kg	0.5	27	27	-	36	24	13	-	-	29	49	130
	Lead	mg/kg	1 / 5	89	96	-	430	200	93	-	-	52	150	410
	Mercury	mg/kg	0.05	0.18	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5
	Nickel	mg/kg	0.5 / 2.5 / 5	5.6	5.8	-	12	8.2	<5	-	-	6.6	14	12
	Zinc	mg/kg	0.5 / 5	78	94	-	410	220	130	-	-	140	430	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.6	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.7	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	1.1	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.6	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1.2	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1
	Fluorene	mg/kg	0.1 / 0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.7	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	1.2	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6.1	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9
Asbestos	Asbestos	-	-	-	ND	ND	-	-	-	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	<LOR	-	1.8	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	<LOR	-	<LOR	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	<LOR	-	<LOR	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

BH129 (1.0-1.1m)	BH129 (1.5-1.6M)	BH129 (2.0-2.1m)	BH129 (2.9-3.0m)	BH129 (3.9-4.0m)	BH129 (5.0-5.1m)	CBH10 (0.5-0.6m)	CBH10 (1.0-1.1m)	CBH10 (1.5-1.6m)	CBH10 (2.0-2.1m)	CBH11 (0.5-0.6m)
BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)
11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012
103787-103788		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	9.6	-	9.3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	0.6	-	1.2	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	6.9	-	10	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	150	-	110	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	370	-	330	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4.3	-	3	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	11	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	1700	-	2200	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	-	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	-	<100	<100	<100	470	690	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	-	<100	<100	<100	200	420	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	-	<100	<100	<100	670	1135	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	-	1	<0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	-	1.9	<0.5	<0.5	8.2	12	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	-	3.4	0.8	<0.5	16	20	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	0.6
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	-	4.7	1.1	<1	<1	17	28	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	1	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	0.9	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1.9	-	51	6.9	<1	<1	180	260	1.3	<1	6
Asbestos	Asbestos	-	-	ND	ND	-	-	-	-	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	<LOR	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	<LOR	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-		<LOR	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

CBH11 (1.0-1.1m)	CBH11 (2.0-2.1m)	CBH11 (3.0-3.1m)	CBH5 (0.5-0.6m)	CBH5 (1.0-1.1m)	CBH5 (2.0-2.1m)	CBH5A (1.0-1.1m) 1	CBH5A (2.0-2.1m) 1	CBH5A (3.0-3.1m)	CBH5A (3.5-3.6m)	CBH6 (0.5-0.6m)
CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
26/07/2012	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012
92458-59	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	540	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	820	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	5.1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	11	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	7.5	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	13	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	3.2	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	6.7	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	18	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5
	Fluorene	mg/kg	0.1 / 0.5	2.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	3.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	16	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5
	Pyrene	mg/kg	0.1 / 0.5	18	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	110	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1
Asbestos	Asbestos	-	-	ND	ND	-	ND	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

CBH6 (1.0-1.1m)	CBH6 (1.5-1.6m)	CBH6 (2.0-2.1m)	CBH6 (2.5-2.6m)	CBH7 (0.5-0.6m)	CBH7 (1.0-1.1m)	CBH7 (1.5-1.6m)	CBH7A (1.0-1.1m) 1	CBH7A (2.0-2.1m)	CBH7A (2.9-3.0m)	CBH8 (0.15-0.6m)
CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
89249-50	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48

Chem_Group	ChemName	Units	LOR										
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4
Asbestos	Asbestos	-	-	ND	ND	-	-	ND	-	ND	ND	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 10
Soil Analytical Results - Comparisin Against Health Investigation Levels for Public Open Space (HIL E)

Haymarket Precinct, Sydney NSW

CBH8 (1.5-1.6m)	CBH8 (2.0-2.1m)	CBH8 (2.5-2.6m)	CBH9 (0.5-0.6m)	CBH9 (1.0-1.1m)	CBH9 (1.5-1.6m)	CBH9 (2.5-2.6m)
CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR							
Inorganics	Moisture	%	0.5	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	68	13	<1
Asbestos	Asbestos	-	-	-	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	-	-	-	-	-	-	-

Appendix D
Laboratory Test Certificates

Overarching Remedial Action Plan
Haymarket Precinct, Darling Harbour, Sydney NSW

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Environments Pty Ltd
Address	Level 1, 3 Rider Boulevard BURSWOOD NSW 2138
Telephone	02 8083 1600
Facsimile	02 8765 0762
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA**
Order Number	**92605-92607**
Samples	19

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100639 R0
Report Number	0000003282
Date Reported	17 Jun 2011
Date Received	07 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES

Andy Sutton
Organics Chemist

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
VOC's in Soil Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	mg/kg	0.1		-	<0.1	-	<0.1
1,2-dichloropropane	mg/kg	0.1		-	<0.1	-	<0.1
cis-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	<0.1
trans-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1		-	<0.1	-	<0.1
Halogenated Aliphatics							
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	<1	-	<1
Chloromethane	mg/kg	1		-	<1	-	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	<0.1	-	<0.1
Bromomethane	mg/kg	1		-	<1	-	<1
Chloroethane	mg/kg	1		-	<1	-	<1
Trichlorofluoromethane	mg/kg	1		-	<1	-	<1
Iodomethane	mg/kg	5		-	<5	-	<5
1,1-dichloroethene	mg/kg	0.1		-	<0.1	-	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	<0.5	-	<0.5
Allyl chloride	mg/kg	0.1		-	<0.1	-	<0.1
trans-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	<0.1
1,1-dichloroethane	mg/kg	0.1		-	<0.1	-	<0.1
cis-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	<0.1
Bromochloromethane	mg/kg	0.1		-	<0.1	-	<0.1
1,2-dichloroethane	mg/kg	0.1		-	<0.1	-	<0.1
1,1,1-trichloroethane	mg/kg	0.1		-	<0.1	-	<0.1
1,1-dichloropropene	mg/kg	0.1		-	<0.1	-	<0.1
Carbon tetrachloride	mg/kg	0.1		-	<0.1	-	<0.1
Dibromomethane	mg/kg	0.1		-	<0.1	-	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	<0.1	-	<0.1
1,1,2-trichloroethane	mg/kg	0.1		-	<0.1	-	<0.1
1,3-dichloropropane	mg/kg	0.1		-	<0.1	-	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	<0.1	-	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1		-	<1	-	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	<0.1
1,2,3-trichloropropane	mg/kg	0.1		-	<0.1	-	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1		-	<1	-	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1		-	<0.1	-	<0.1
Hexachlorobutadiene	mg/kg	0.1		-	<0.1	-	<0.1
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
Bromobenzene	mg/kg	0.1		-	<0.1	-	<0.1
2-chlorotoluene	mg/kg	0.1		-	<0.1	-	<0.1
4-chlorotoluene	mg/kg	0.1		-	<0.1	-	<0.1
1,3-dichlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
1,4-dichlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
1,2-dichlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1		-	<0.1	-	<0.1
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1		-	<0.1	-	<0.1
Toluene	mg/kg	0.1		-	<0.1	-	<0.1
Ethylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
m/p-xylene	mg/kg	0.2		-	<0.2	-	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1		-	<0.1	-	<0.1
o-xylene	mg/kg	0.1		-	<0.1	-	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1		-	<0.1	-	<0.1
n-propylbenzene	mg/kg	0.1		-	<0.1	-	<0.1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
VOC's in Soil Method: AN433/AN434 (continued)							
1,3,5-trimethylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
tert-butylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
sec-butylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
p-isopropyltoluene	mg/kg	0.1		-	<0.1	-	<0.1
n-butylbenzene	mg/kg	0.1		-	<0.1	-	<0.1
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1		-	<0.1	-	<0.1
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10		-	<10	-	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5		-	<0.5	-	<0.5
Vinyl acetate	mg/kg	10		-	<10	-	<10
MEK (2-butanone)	mg/kg	10		-	<10	-	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1		-	<1	-	<1
2-hexanone (MBK)	mg/kg	5		-	<5	-	<5
Polycyclic VOCs							
Naphthalene	mg/kg	0.1		-	<0.1	-	<0.1
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5		-	<0.5	-	<0.5
Surrogates							
Dibromofluoromethane (Surrogate)	%	-		-	**94**	-	**87**
d4-1,2-dichloroethane (Surrogate)	%	-		-	**106**	-	**100**
d8-toluene (Surrogate)	%	-		-	**108**	-	**111**
Bromofluorobenzene (Surrogate)	%	-		-	**105**	-	**91**
Totals							
Total BTEX*	mg/kg	-		-	**0**	-	**0**
Total Xylenes*	mg/kg	0.3		-	<0.3	-	<0.3
Total VOC*	mg/kg	24		-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1		-	<0.1	-	<0.1
Bromodichloromethane	mg/kg	0.1		-	<0.1	-	<0.1
Chlorodibromomethane	mg/kg	0.1		-	<0.1	-	<0.1
Bromoform	mg/kg	0.1		-	<0.1	-	<0.1
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20		-	<20	<20	<20
Benzene	mg/kg	0.1		-	-	<0.1	<0.1
Toluene	mg/kg	0.1		-	-	<0.1	<0.1
Ethylbenzene	mg/kg	0.1		-	-	<0.1	<0.1
m/p-xylene	mg/kg	1		-	-	<1	<1
o-xylene	mg/kg	0.5		-	-	<0.5	<0.5
Total Xylenes	mg/kg	0.3		-	-	<0.3	<0.3
Total BTEX*	mg/kg	2.7		-	-	<2.7	<2.7

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)							
Surrogates							
Trifluorotoluene (Surrogate)	%	-		-	**69**	**114**	**114**
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5		-	**2.3**	-	<0.5
Acenaphthylene	mg/kg	0.5		-	**12**	-	<0.5
Anthracene	mg/kg	0.5		-	**23**	-	<0.5
Benzo(a)anthracene	mg/kg	0.5		-	**55**	-	<0.5
Benzo(b&k)fluoranthene	mg/kg	1		-	**64**	-	<1
Benzo(b)fluoranthene	mg/kg	0.5		-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5		-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5		-	**25**	-	<0.5
Benzo(a)pyrene	mg/kg	0.5		-	**47**	-	<0.5
Chrysene	mg/kg	0.5		-	**40**	-	<0.5
Dibenzo(ah)anthracene	mg/kg	0.5		-	**2.7**	-	<0.5
Fluoranthene	mg/kg	0.5		-	**120**	-	<0.5
Fluorene	mg/kg	0.5		-	**8.9**	-	<0.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.5		-	**23**	-	<0.5
1-methylnaphthalene	mg/kg	0.5		-	**2.1**	-	<0.5
2-methylnaphthalene	mg/kg	0.5		-	**1.5**	-	<0.5
Naphthalene	mg/kg	0.5		-	**2.6**	-	<0.5
Phenanthrene	mg/kg	0.5		-	**84**	-	<0.5
Pyrene	mg/kg	0.5		-	**120**	-	<0.5
2-acetylamino fluorene	mg/kg	2		-	<2	-	<2
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5		-	<0.5	-	<0.5
3-methylcholanthrene	mg/kg	1		-	<1	-	<1
OCs							
Aldrin	mg/kg	0.5		-	<0.5	-	<0.5
Alpha-BHC	mg/kg	0.5		-	<0.5	-	<0.5
Beta-BHC	mg/kg	0.5		-	<0.5	-	<0.5
Delta-BHC	mg/kg	0.5		-	<0.5	-	<0.5
Gamma-BHC (Lindane)	mg/kg	0.5		-	<0.5	-	<0.5
p,p-DDD	mg/kg	0.5		-	<0.5	-	<0.5
p,p-DDE	mg/kg	0.5		-	<0.5	-	<0.5
p,p-DDT	mg/kg	0.5		-	<0.5	-	<0.5
Dieldrin	mg/kg	0.5		-	<0.5	-	<0.5
Alpha-endosulfan	mg/kg	0.5		-	<0.5	-	<0.5
Beta-endosulfan	mg/kg	0.5		-	<0.5	-	<0.5
Endosulfan sulphate	mg/kg	0.5		-	<0.5	-	<0.5
Endrin	mg/kg	0.5		-	<0.5	-	<0.5
Heptachlor	mg/kg	0.5		-	<0.5	-	<0.5
Heptachlor epoxide	mg/kg	0.5		-	<0.5	-	<0.5
Isodrin	mg/kg	0.5		-	<0.5	-	<0.5
Methoxychlor	mg/kg	0.5		-	<0.5	-	<0.5
Mirex	mg/kg	0.5		-	<0.5	-	<0.5
Alpha-chlordane	mg/kg	0.5		-	<0.5	-	<0.5
Gamma-chlordane	mg/kg	0.5		-	<0.5	-	<0.5
Endrin ketone	mg/kg	0.5		-	<0.5	-	<0.5

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
Full 8270 SVOC in Soil Method: AN420 (continued)							
OPs							
Azinphos-methyl (Guthion)	mg/kg	1		-	<1	-	<1
Bromophos ethyl	mg/kg	1		-	<1	-	<1
Carbophenothion	mg/kg	1		-	<1	-	<1
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5		-	<5	-	<5
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1		-	<1	-	<1
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1		-	<1	-	<1
Chlorpyrifos-methyl	mg/kg	1		-	<1	-	<1
Co-Ral (Coumaphos)	mg/kg	1		-	<1	-	<1
Diazinon (Dimpylate)	mg/kg	1		-	<1	-	<1
Dichlorvos	mg/kg	1		-	<1	-	<1
Demeton-S-methyl	mg/kg	1		-	<1	-	<1
Dimethoate	mg/kg	1		-	<1	-	<1
Disulfoton (Di-syston)	mg/kg	1		-	<1	-	<1
EPN*	mg/kg	1		-	<1	-	<1
Ethion	mg/kg	1		-	<1	-	<1
Ethoprophos (ethoprop or prophos)	mg/kg	1		-	<1	-	<1
Famphur (Famophos)	mg/kg	1		-	<1	-	<1
Fenamiphos (Phenamiphos)	mg/kg	1		-	<1	-	<1
Fenchlorophos (Ronnel)	mg/kg	1		-	<1	-	<1
Fenitrothion	mg/kg	1		-	<1	-	<1
Fenthion	mg/kg	1		-	<1	-	<1
Malathion (Maldison)	mg/kg	1		-	<1	-	<1
Methidathion	mg/kg	1		-	<1	-	<1
Mevinphos-cis/trans	mg/kg	2		-	<2	-	<2
o,o,o-triethyl phosphorothioate	mg/kg	1		-	<1	-	<1
Parathion ethyl (Parathion)	mg/kg	1		-	<1	-	<1
Parathion methyl	mg/kg	1		-	<1	-	<1
Phorate	mg/kg	1		-	<1	-	<1
Pirimiphos-ethyl	mg/kg	1		-	<1	-	<1
Pirimiphos-methyl	mg/kg	1		-	<1	-	<1
Profenofos	mg/kg	1		-	<1	-	<1
Prothiophos (Tokuthion)*	mg/kg	1		-	<1	-	<1
Sulfotepp	mg/kg	1		-	<1	-	<1
Tetrachlorvinphos (Stirophos)*	mg/kg	1		-	<1	-	<1
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C52	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C101	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C118	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C138	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C153	mg/kg	0.5		-	<0.5	-	<0.5
PCB Congener C180	mg/kg	0.5		-	<0.5	-	<0.5
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
1,2-dichlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
1,3-dichlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
1,4-dichlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
Hexachlorobutadiene	mg/kg	0.5		-	<0.5	-	<0.5
Hexachlorocyclopentadiene	mg/kg	1		-	<1	-	<1
Hexachloroethane	mg/kg	0.5		-	<0.5	-	<0.5
Hexachloroproprene	mg/kg	0.5		-	<0.5	-	<0.5
Pentachlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
Pentachloroethane	mg/kg	0.5		-	<0.5	-	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1		-	<1	-	<1
1,2,3,4-tetrachlorobenzene	mg/kg	0.5		-	<0.5	-	<0.5
1/2-Chloronaphthalene	mg/kg	1		-	<1	-	<1

Parameter	Units	LOR	Sample Number: SE100639.001 Sample Matrix: Soil Sample Date: 01 Jun 2011 Sample Name: BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
Full 8270 SVOC in Soil Method: AN420 (continued)						
1,2,4-trichlorobenzene	mg/kg	0.5	-	<0.5	-	<0.5
Phthalates						
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	<5	-	<5
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	<0.5	-	<0.5
Butyl benzyl phthalate	mg/kg	0.5	-	<0.5	-	<0.5
Di-n-butyl phthalate	mg/kg	0.5	-	<0.5	-	<0.5
Diethyl phthalate	mg/kg	0.5	-	<0.5	-	<0.5
Dimethyl phthalate	mg/kg	0.5	-	<0.5	-	<0.5
Dioctyl phthalate	mg/kg	0.5	-	<0.5	-	<0.5
Carbamates						
Carbofuran	mg/kg	0.5	-	<0.5	-	<0.5
Carbaryl	mg/kg	0.5	-	<0.5	-	<0.5
Herbicides (normal)						
Trifluralin	mg/kg	0.5	-	<0.5	-	<0.5
Nitrosamines						
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	<0.5	-	<0.5
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	<1	-	<1
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	<0.5	-	<0.5
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	<0.5	-	<0.5
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	<0.5	-	<0.5
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	<1	-	<1
4-amino biphenyl	mg/kg	1	-	<1	-	<1
Nitroaromatics and Ketones						
Acetophenone	mg/kg	0.5	-	<0.5	-	<0.5
1,3-dinitrobenzene	mg/kg	1	-	<1	-	<1
2,4-dinitrotoluene	mg/kg	0.5	-	<0.5	-	<0.5
2,6-dinitrotoluene	mg/kg	0.5	-	<0.5	-	<0.5
Isophorone	mg/kg	0.5	-	<0.5	-	<0.5
Nitrobenzene	mg/kg	0.5	-	<0.5	-	<0.5
p-(dimethylamino) azobenzene	mg/kg	1	-	<1	-	<1
Phenacetin	mg/kg	1	-	<1	-	<1
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	<0.5	-	<0.5
Anilines and Amines						
Aniline	mg/kg	3	-	<3	-	<3
4-chloroaniline	mg/kg	1	-	<1	-	<1
2-nitroaniline	mg/kg	1	-	<1	-	<1
3-nitroaniline	mg/kg	1	-	<1	-	<1
4-nitroaniline	mg/kg	1	-	<1	-	<1
Diphenylamine	mg/kg	0.5	-	<0.5	-	<0.5
o-toluidine	mg/kg	1	-	<1	-	<1
5-nitro-o-toluidine	mg/kg	1	-	<1	-	<1
1-naphthylamine	mg/kg	1	-	<1	-	<1
2-naphthylamine	mg/kg	1	-	<1	-	<1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
Full 8270 SVOC in Soil Method: AN420 (continued)							
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5		-	<0.5	-	<0.5
Bis(2-chloroethyl) ether	mg/kg	0.5		-	<0.5	-	<0.5
Bis(2-chloroisopropyl) ether	mg/kg	0.5		-	<0.5	-	<0.5
4-chlorophenyl phenyl ether	mg/kg	0.5		-	<0.5	-	<0.5
4-bromophenyl phenyl ether	mg/kg	0.5		-	<0.5	-	<0.5
Other SVOCs							
Methyl methanesulfonate	mg/kg	1		-	<1	-	<1
Ethyl methanesulfonate	mg/kg	1		-	<1	-	<1
Dibenzofuran	mg/kg	0.5		-	**7.0**	-	<0.5
Benzyl alcohol	mg/kg	1		-	<1	-	<1
Safrole	mg/kg	0.5		-	<0.5	-	<0.5
Isosafrole Isomer 1	mg/kg	1		-	<1	-	<1
Isosafrole Isomer 2	mg/kg	1		-	<1	-	<1
1,4-naphthoquinone	mg/kg	0.5		-	<0.5	-	<0.5
Thionazin	mg/kg	1		-	<1	-	<1
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1		-	<1	-	<1
2-methyl phenol (o-cresol)	mg/kg	0.5		-	<0.5	-	<0.5
2,6-dichlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1		-	<1	-	<1
2,4,5-trichlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
4-chloro-3-methylphenol	mg/kg	1		-	<1	-	<1
2-chlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
2,4-dichlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
2,4-dimethyl phenol	mg/kg	0.5		-	<0.5	-	<0.5
2-nitrophenol	mg/kg	0.5		-	<0.5	-	<0.5
Phenol	mg/kg	0.5		-	<0.5	-	<0.5
2,4,6-trichlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
Pentachlorophenol	mg/kg	0.5		-	<0.5	-	<0.5
4-nitrophenol	mg/kg	0.5		-	<0.5	-	<0.5
Surrogates							
d5-phenol (Surrogate)	%	-		-	**72**	-	**73**
d5-nitrobenzene (Surrogate)	%	-		-	**93**	-	**120**
2-fluorobiphenyl (Surrogate)	%	-		-	**73**	-	**105**
2,4,6-tribromophenol (Surrogate)	%	-		-	**67**	-	**109**
d14-p-terphenyl (Surrogate)	%	-		-	**75**	-	**110**
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20		-	**28**	**23**	<20
TRH C15-C28	mg/kg	50		-	**1200**	**430**	<50
TRH C29-C36	mg/kg	50		-	**620**	**260**	<50
Surrogates							
TRH (Surrogate)	%	-		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1		-	-	**2.6**	-
Acenaphthylene	mg/kg	0.1		-	-	**0.7**	-
Acenaphthene	mg/kg	0.1		-	-	**3.2**	-
Fluorene	mg/kg	0.1		-	-	**3.6**	-
Phenanthrene	mg/kg	0.1		-	-	**14**	-
Anthracene	mg/kg	0.1		-	-	**6.0**	-
Fluoranthene	mg/kg	0.1		-	-	**16**	-
Pyrene	mg/kg	0.1		-	-	**18**	-
Benzo(a)anthracene	mg/kg	0.1		-	-	**8.5**	-
Chrysene	mg/kg	0.1		-	-	**6.1**	-
Benzo(b)fluoranthene	mg/kg	0.1		-	-	**9.0**	-
Benzo(k)fluoranthene	mg/kg	0.1		-	-	**3.0**	-
Benzo(a)pyrene	mg/kg	0.05		-	-	**7.0**	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		-	-	**3.9**	-
Dibenzo(a&h)anthracene	mg/kg	0.1		-	-	**0.8**	-
Benzo(ghi)perylene	mg/kg	0.1		-	-	**4.6**	-
Total PAH	mg/kg	1.75		-	-	**110**	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-		-	-	**121**	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	**107**	-
d14-p-terphenyl (Surrogate)	%	-		-	-	**110**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3		-	**5**	<3	**4**
Cadmium, Cd	mg/kg	0.3		-	**0.3**	<0.3	<0.3
Chromium, Cr	mg/kg	0.3		-	**16**	**20**	**7.5**
Copper, Cu	mg/kg	0.5		-	**34**	**18**	**51**
Lead, Pb	mg/kg	1		-	**74**	**21**	**15**
Nickel, Ni	mg/kg	0.5		-	**4.6**	**5.1**	**6.6**
Zinc, Zn	mg/kg	0.5		-	**77**	**160**	**32**
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05		-	**0.12**	**0.09**	<0.05
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-		No	-	No	-
Moisture Content Method: AN234							
% Moisture	%	0.5		-	**18**	**9.4**	**13**
VOCs in Water Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	µg/L	0.5		-	-	-	-
1,2-dichloropropane	µg/L	0.5		-	-	-	-
cis-1,3-dichloropropene	µg/L	0.5		-	-	-	-
trans-1,3-dichloropropene	µg/L	0.5		-	-	-	-
1,2-dibromoethane (EDB)	µg/L	0.5		-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.001 Sample Matrix: Soil Sample Date: 01 Jun 2011 Sample Name: BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
VOCs in Water Method: AN433/AN434 (continued)						
Halogenated Aliphatics						
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	-	-	-
Chloromethane	µg/L	5	-	-	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	-	-	-
Bromomethane	µg/L	10	-	-	-	-
Chloroethane	µg/L	5	-	-	-	-
Trichlorofluoromethane	µg/L	1	-	-	-	-
Iodomethane	µg/L	5	-	-	-	-
1,1-dichloroethene	µg/L	0.5	-	-	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	-	-	-
Allyl chloride	µg/L	2	-	-	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	-	-	-
1,1-dichloroethane	µg/L	0.5	-	-	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	-	-	-
Bromochloromethane	µg/L	0.5	-	-	-	-
1,2-dichloroethane	µg/L	0.5	-	-	-	-
1,1,1-trichloroethane	µg/L	0.5	-	-	-	-
1,1-dichloropropene	µg/L	0.5	-	-	-	-
Carbon tetrachloride	µg/L	0.5	-	-	-	-
Dibromomethane	µg/L	0.5	-	-	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	-	-	-
1,1,2-trichloroethane	µg/L	0.5	-	-	-	-
1,3-dichloropropane	µg/L	0.5	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	-	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	-	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-	-	-	-
1,2,3-trichloropropane	µg/L	0.5	-	-	-	-
trans-1,4-dichloro-2-butene	µg/L	1	-	-	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	-	-	-
Hexachlorobutadiene	µg/L	0.5	-	-	-	-
Halogenated Aromatics						
Chlorobenzene	µg/L	0.5	-	-	-	-
Bromobenzene	µg/L	0.5	-	-	-	-
2-chlorotoluene	µg/L	0.5	-	-	-	-
4-chlorotoluene	µg/L	0.5	-	-	-	-
1,3-dichlorobenzene	µg/L	0.5	-	-	-	-
1,4-dichlorobenzene	µg/L	0.3	-	-	-	-
1,2-dichlorobenzene	µg/L	0.5	-	-	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	-	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	-	-	-
Monocyclic Aromatic Hydrocarbons						
Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
Styrene (Vinyl benzene)	µg/L	0.5	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	-	-	-
n-propylbenzene	µg/L	0.5	-	-	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	-	-	-
tert-butylbenzene	µg/L	0.5	-	-	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	-	-	-
sec-butylbenzene	µg/L	0.5	-	-	-	-
p-isopropyltoluene	µg/L	0.5	-	-	-	-
n-butylbenzene	µg/L	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.001 Sample Matrix: Soil Sample Date: 01 Jun 2011 Sample Name: BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
VOCs in Water Method: AN433/AN434 (continued)						
Nitrogenous Compounds						
Acrylonitrile	µg/L	0.5	-	-	-	-
Oxygenated Compounds						
Acetone (2-propanone)	µg/L	10	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	-	-	-	-
Vinyl acetate	µg/L	10	-	-	-	-
MEK (2-butanone)	µg/L	10	-	-	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	-	-	-
2-hexanone (MBK)	µg/L	5	-	-	-	-
Polycyclic VOCs						
Naphthalene	µg/L	0.5	-	-	-	-
Sulphonated Compounds						
Carbon disulfide	µg/L	2	-	-	-	-
Surrogates						
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
Totals						
Total VOC	µg/L	10	-	-	-	-
Trihalomethanes						
Chloroform (THM)	µg/L	0.5	-	-	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	-	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	-	-	-
Bromoform (THM)	µg/L	0.5	-	-	-	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434						
TRH C6-C9	µg/L	40	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-
Surrogates						
Trifluorotoluene (Surrogate)	%	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403						
TRH C10-C14	µg/L	100	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.001 Soil 01 Jun 2011 BH11 0.1-0.2	SE100639.002 Soil 01 Jun 2011 BH11 0.5m	SE100639.003 Soil 01 Jun 2011 BH11 1.0m	SE100639.005 Soil 02 Jun 2011 BH3 0.5m
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)							
Surrogates							
TRH (Surrogate)	%	-		-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1		-	-	-	-
Acenaphthylene	µg/L	0.1		-	-	-	-
Acenaphthene	µg/L	0.1		-	-	-	-
Fluorene	µg/L	0.1		-	-	-	-
Phenanthrene	µg/L	0.1		-	-	-	-
Anthracene	µg/L	0.1		-	-	-	-
Fluoranthene	µg/L	0.1		-	-	-	-
Pyrene	µg/L	0.1		-	-	-	-
Benzo(a)anthracene	µg/L	0.1		-	-	-	-
Chrysene	µg/L	0.1		-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1		-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1		-	-	-	-
Benzo(a)pyrene	µg/L	0.1		-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1		-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1		-	-	-	-
Benzo(ghi)perylene	µg/L	0.1		-	-	-	-
Total PAH (18)*	µg/L	1		-	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318							
Arsenic, As	µg/L	1		-	-	-	-
Cadmium, Cd	µg/L	0.1		-	-	-	-
Chromium, Cr	µg/L	1		-	-	-	-
Copper, Cu	µg/L	1		-	-	-	-
Lead, Pb	µg/L	1		-	-	-	-
Nickel, Ni	µg/L	1		-	-	-	-
Zinc, Zn	µg/L	1		-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312							
Mercury	mg/L	0.0001		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		<0.1	-	-	-	-
1,2-dichloropropane	mg/kg	0.1		<0.1	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		<0.1	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		<0.1	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		<0.1	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.006 Sample Matrix: Soil Sample Date: 02 Jun 2011 Sample Name: BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
VOC's in Soil Method: AN433/AN434 (continued)							
Halogenated Aliphatics							
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	-	-	-	-
Chloromethane	mg/kg	1	<1	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	-	-	-	-
Bromomethane	mg/kg	1	<1	-	-	-	-
Chloroethane	mg/kg	1	<1	-	-	-	-
Trichlorofluoromethane	mg/kg	1	<1	-	-	-	-
Iodomethane	mg/kg	5	<5	-	-	-	-
1,1-dichloroethene	mg/kg	0.1	<0.1	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	-	-	-	-
Allyl chloride	mg/kg	0.1	<0.1	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-	-
1,1-dichloroethane	mg/kg	0.1	<0.1	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-	-
Bromochloromethane	mg/kg	0.1	<0.1	-	-	-	-
1,2-dichloroethane	mg/kg	0.1	<0.1	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1	<0.1	-	-	-	-
1,1-dichloropropene	mg/kg	0.1	<0.1	-	-	-	-
Carbon tetrachloride	mg/kg	0.1	<0.1	-	-	-	-
Dibromomethane	mg/kg	0.1	<0.1	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1	<0.1	-	-	-	-
1,3-dichloropropane	mg/kg	0.1	<0.1	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1	<0.1	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	<0.1	-	-	-	-
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
Bromobenzene	mg/kg	0.1	<0.1	-	-	-	-
2-chlorotoluene	mg/kg	0.1	<0.1	-	-	-	-
4-chlorotoluene	mg/kg	0.1	<0.1	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	<0.1	-	-	-	-
Toluene	mg/kg	0.1	<0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	<0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	<0.2	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	-	-	-	-
o-xylene	mg/kg	0.1	<0.1	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	-	-	-	-
n-propylbenzene	mg/kg	0.1	<0.1	-	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-	-
tert-butylbenzene	mg/kg	0.1	<0.1	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-	-
sec-butylbenzene	mg/kg	0.1	<0.1	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	<0.1	-	-	-	-
n-butylbenzene	mg/kg	0.1	<0.1	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.006 Sample Matrix: Soil Sample Date: 02 Jun 2011 Sample Name: BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
VOC's in Soil Method: AN433/AN434 (continued)							
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	<0.1	-	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	<10	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	<0.5	-	-	-	-
Vinyl acetate	mg/kg	10	<10	-	-	-	-
MEK (2-butanone)	mg/kg	10	<10	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	-	-	-	-
2-hexanone (MBK)	mg/kg	5	<5	-	-	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	<0.1	-	-	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	<0.5	-	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	**96**	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	**110**	-	-	-	-
d8-toluene (Surrogate)	%	-	**111**	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	**101**	-	-	-	-
Totals							
Total BTEX*	mg/kg	-	**0**	-	-	-	-
Total Xylenes*	mg/kg	0.3	<0.3	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	<0.1	-	-	-	-
Bromodichloromethane	mg/kg	0.1	<0.1	-	-	-	-
Chlorodibromomethane	mg/kg	0.1	<0.1	-	-	-	-
Bromoform	mg/kg	0.1	<0.1	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	-	<20	<20	-
Benzene	mg/kg	0.1	-	-	<0.1	<0.1	-
Toluene	mg/kg	0.1	-	-	<0.1	<0.1	-
Ethylbenzene	mg/kg	0.1	-	-	<0.1	<0.1	-
m/p-xylene	mg/kg	1	-	-	<1	<1	-
o-xylene	mg/kg	0.5	-	-	<0.5	<0.5	-
Total Xylenes	mg/kg	0.3	-	-	<0.3	<0.3	-
Total BTEX*	mg/kg	2.7	-	-	<2.7	<2.7	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**102**	-	**100**	**113**	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	<0.5	-	-	-	-
Acenaphthylene	mg/kg	0.5	<0.5	-	-	-	-
Anthracene	mg/kg	0.5	<0.5	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5	<0.5	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	<1	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	<0.5	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5	<0.5	-	-	-	-
Chrysene	mg/kg	0.5	<0.5	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	<0.5	-	-	-	-
Fluoranthene	mg/kg	0.5	<0.5	-	-	-	-
Fluorene	mg/kg	0.5	<0.5	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	<0.5	-	-	-	-
1-methylnaphthalene	mg/kg	0.5	<0.5	-	-	-	-
2-methylnaphthalene	mg/kg	0.5	<0.5	-	-	-	-
Naphthalene	mg/kg	0.5	<0.5	-	-	-	-
Phenanthrene	mg/kg	0.5	<0.5	-	-	-	-
Pyrene	mg/kg	0.5	<0.5	-	-	-	-
2-acetylamino fluorene	mg/kg	2	<2	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	<0.5	-	-	-	-
3-methylcholanthrene	mg/kg	1	<1	-	-	-	-
OCs							
Aldrin	mg/kg	0.5	<0.5	-	-	-	-
Alpha-BHC	mg/kg	0.5	<0.5	-	-	-	-
Beta-BHC	mg/kg	0.5	<0.5	-	-	-	-
Delta-BHC	mg/kg	0.5	<0.5	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	<0.5	-	-	-	-
p,p-DDD	mg/kg	0.5	<0.5	-	-	-	-
p,p-DDE	mg/kg	0.5	<0.5	-	-	-	-
p,p-DDT	mg/kg	0.5	<0.5	-	-	-	-
Dieldrin	mg/kg	0.5	<0.5	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	<0.5	-	-	-	-
Beta-endosulfan	mg/kg	0.5	<0.5	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	<0.5	-	-	-	-
Endrin	mg/kg	0.5	<0.5	-	-	-	-
Heptachlor	mg/kg	0.5	<0.5	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	<0.5	-	-	-	-
Isodrin	mg/kg	0.5	<0.5	-	-	-	-
Methoxychlor	mg/kg	0.5	<0.5	-	-	-	-
Mirex	mg/kg	0.5	<0.5	-	-	-	-
Alpha-chlordane	mg/kg	0.5	<0.5	-	-	-	-
Gamma-chlordane	mg/kg	0.5	<0.5	-	-	-	-
Endrin ketone	mg/kg	0.5	<0.5	-	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	<1	-	-	-	-
Bromophos ethyl	mg/kg	1	<1	-	-	-	-
Carbophenothion	mg/kg	1	<1	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	<5	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	<1	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	<1	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	<1	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	<1	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	<1	-	-	-	-
Dichlorvos	mg/kg	1	<1	-	-	-	-
Demeton-S-methyl	mg/kg	1	<1	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.006 Sample Matrix: Soil Sample Date: 02 Jun 2011 Sample Name: BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
Full 8270 SVOC in Soil Method: AN420 (continued)							
Dimethoate	mg/kg	1	<1	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	<1	-	-	-	-
EPN*	mg/kg	1	<1	-	-	-	-
Ethion	mg/kg	1	<1	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	<1	-	-	-	-
Famphur (Famophos)	mg/kg	1	<1	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	<1	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	<1	-	-	-	-
Fenitrothion	mg/kg	1	<1	-	-	-	-
Fenthion	mg/kg	1	<1	-	-	-	-
Malathion (Maldison)	mg/kg	1	<1	-	-	-	-
Methidathion	mg/kg	1	<1	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	<2	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	<1	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	<1	-	-	-	-
Parathion methyl	mg/kg	1	<1	-	-	-	-
Phorate	mg/kg	1	<1	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	<1	-	-	-	-
Pirimiphos-methyl	mg/kg	1	<1	-	-	-	-
Profenofos	mg/kg	1	<1	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	<1	-	-	-	-
Sulfotepp	mg/kg	1	<1	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	<1	-	-	-	-
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C52	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C101	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C118	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C138	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C153	mg/kg	0.5	<0.5	-	-	-	-
PCB Congener C180	mg/kg	0.5	<0.5	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	<0.5	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	<1	-	-	-	-
Hexachloroethane	mg/kg	0.5	<0.5	-	-	-	-
Hexachloroproprene	mg/kg	0.5	<0.5	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
Pentachloroethane	mg/kg	0.5	<0.5	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	<1	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	<0.5	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	<1	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	<0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.006 Sample Matrix: Soil Sample Date: 02 Jun 2011 Sample Name: BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	<5	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	<0.5	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	<0.5	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	<0.5	-	-	-	-
Diethyl phthalate	mg/kg	0.5	<0.5	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	<0.5	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	<0.5	-	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	<0.5	-	-	-	-
Carbaryl	mg/kg	0.5	<0.5	-	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	<0.5	-	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	<0.5	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	<1	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	<0.5	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	<0.5	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	<0.5	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	<1	-	-	-	-
4-amino biphenyl	mg/kg	1	<1	-	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	<0.5	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	<1	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	<0.5	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	<0.5	-	-	-	-
Isophorone	mg/kg	0.5	<0.5	-	-	-	-
Nitrobenzene	mg/kg	0.5	<0.5	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	<1	-	-	-	-
Phenacetin	mg/kg	1	<1	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	<0.5	-	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	<3	-	-	-	-
4-chloroaniline	mg/kg	1	<1	-	-	-	-
2-nitroaniline	mg/kg	1	<1	-	-	-	-
3-nitroaniline	mg/kg	1	<1	-	-	-	-
4-nitroaniline	mg/kg	1	<1	-	-	-	-
Diphenylamine	mg/kg	0.5	<0.5	-	-	-	-
o-toluidine	mg/kg	1	<1	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	<1	-	-	-	-
1-naphthylamine	mg/kg	1	<1	-	-	-	-
2-naphthylamine	mg/kg	1	<1	-	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	<0.5	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	<0.5	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	<0.5	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	<0.5	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	<0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.006 Sample Matrix: Soil Sample Date: 02 Jun 2011 Sample Name: BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
Full 8270 SVOC in Soil Method: AN420 (continued)							
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	<1	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	<1	-	-	-	-
Dibenzofuran	mg/kg	0.5	<0.5	-	-	-	-
Benzyl alcohol	mg/kg	1	<1	-	-	-	-
Safrole	mg/kg	0.5	<0.5	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	<1	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	<1	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	<0.5	-	-	-	-
Thionazin	mg/kg	1	<1	-	-	-	-
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	<0.5	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	<1	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	<1	-	-	-	-
2-chlorophenol	mg/kg	0.5	<0.5	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	<0.5	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	<0.5	-	-	-	-
2-nitrophenol	mg/kg	0.5	<0.5	-	-	-	-
Phenol	mg/kg	0.5	<0.5	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	-	-	-	-
Pentachlorophenol	mg/kg	0.5	<0.5	-	-	-	-
4-nitrophenol	mg/kg	0.5	<0.5	-	-	-	-
Surrogates							
d5-phenol (Surrogate)	%	-	**111**	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	**115**	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	**100**	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	**111**	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	**125**	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	-	<20	<20	-
TRH C15-C28	mg/kg	50	<50	-	<50	<50	-
TRH C29-C36	mg/kg	50	<50	-	<50	<50	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	<0.1	-	-	**0.4**	-
Acenaphthylene	mg/kg	0.1	<0.1	-	-	<0.1	-
Acenaphthene	mg/kg	0.1	<0.1	-	-	**0.2**	-
Fluorene	mg/kg	0.1	<0.1	-	-	**0.1**	-
Phenanthrene	mg/kg	0.1	<0.1	-	-	**0.4**	-
Anthracene	mg/kg	0.1	<0.1	-	-	**0.2**	-
Fluoranthene	mg/kg	0.1	**0.2**	-	-	**0.6**	-
Pyrene	mg/kg	0.1	**0.2**	-	-	**0.6**	-
Benzo(a)anthracene	mg/kg	0.1	**0.1**	-	-	**0.3**	-
Chrysene	mg/kg	0.1	<0.1	-	-	**0.2**	-
Benzo(b)fluoranthene	mg/kg	0.1	**0.2**	-	-	**0.3**	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	-	<0.1	-
Benzo(a)pyrene	mg/kg	0.05	**0.10**	-	-	**0.25**	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	-	**0.1**	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	-	<0.1	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)								
Benzo(ghi)perylene	mg/kg	0.1		<0.1	-	-	**0.2**	-
Total PAH	mg/kg	1.75		<1.8↑	-	-	**3.7**	-
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		**126**	-	-	**119**	-
2-fluorobiphenyl (Surrogate)	%	-		**109**	-	-	**106**	-
d14-p-terphenyl (Surrogate)	%	-		**105**	-	-	**102**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3		**4**	-	<3	**9**	-
Cadmium, Cd	mg/kg	0.3		<0.3	-	<0.3	<0.3	-
Chromium, Cr	mg/kg	0.3		**14**	-	**6.0**	**12**	-
Copper, Cu	mg/kg	0.5		**58**	-	**4.9**	**57**	-
Lead, Pb	mg/kg	1		**27**	-	**6**	**120**	-
Nickel, Ni	mg/kg	0.5		**22**	-	**0.9**	**10**	-
Zinc, Zn	mg/kg	0.5		**50**	-	**1.9**	**85**	-
Mercury in Soil Method: AN312								
Mercury	mg/kg	0.05		**0.48**	-	<0.05	**0.47**	-
Fibre Identification in soil Method: AN602								
FibreID								
Asbestos Detected	No unit	-		No	No	-	-	-
Moisture Content Method: AN234								
% Moisture	%	0.5		**17**	-	**15**	**14**	-
VOCs in Water Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	µg/L	0.5		-	-	-	-	<0.5
1,2-dichloropropane	µg/L	0.5		-	-	-	-	<0.5
cis-1,3-dichloropropene	µg/L	0.5		-	-	-	-	<0.5
trans-1,3-dichloropropene	µg/L	0.5		-	-	-	-	<0.5
1,2-dibromoethane (EDB)	µg/L	0.5		-	-	-	-	<0.5
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	µg/L	5		-	-	-	-	<5
Chloromethane	µg/L	5		-	-	-	-	<5
Vinyl chloride (Chloroethene)	µg/L	0.3		-	-	-	-	<0.3
Bromomethane	µg/L	10		-	-	-	-	<10
Chloroethane	µg/L	5		-	-	-	-	<5
Trichlorofluoromethane	µg/L	1		-	-	-	-	<1
Iodomethane	µg/L	5		-	-	-	-	<5
1,1-dichloroethene	µg/L	0.5		-	-	-	-	<0.5
Dichloromethane (Methylene chloride)	µg/L	5		-	-	-	-	<5
Allyl chloride	µg/L	2		-	-	-	-	<2
trans-1,2-dichloroethene	µg/L	0.5		-	-	-	-	<0.5
1,1-dichloroethane	µg/L	0.5		-	-	-	-	<0.5
cis-1,2-dichloroethene	µg/L	0.5		-	-	-	-	<0.5
Bromochloromethane	µg/L	0.5		-	-	-	-	<0.5
1,2-dichloroethane	µg/L	0.5		-	-	-	-	<0.5
1,1,1-trichloroethane	µg/L	0.5		-	-	-	-	<0.5
1,1-dichloropropene	µg/L	0.5		-	-	-	-	<0.5
Carbon tetrachloride	µg/L	0.5		-	-	-	-	<0.5
Dibromomethane	µg/L	0.5		-	-	-	-	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5		-	-	-	-	<0.5
1,1,2-trichloroethane	µg/L	0.5		-	-	-	-	<0.5

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
VOCs in Water Method: AN433/AN434 (continued)								
1,3-dichloropropane	µg/L	0.5		-	-	-	-	<0.5
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5		-	-	-	-	<0.5
1,1,1,2-tetrachloroethane	µg/L	0.5		-	-	-	-	<0.5
cis-1,4-dichloro-2-butene	µg/L	1		-	-	-	-	<1
1,1,2,2-tetrachloroethane	µg/L	0.5		-	-	-	-	<0.5
1,2,3-trichloropropane	µg/L	0.5		-	-	-	-	<0.5
trans-1,4-dichloro-2-butene	µg/L	1		-	-	-	-	<1
1,2-dibromo-3-chloropropane	µg/L	0.5		-	-	-	-	<0.5
Hexachlorobutadiene	µg/L	0.5		-	-	-	-	<0.5
Halogenated Aromatics								
Chlorobenzene	µg/L	0.5		-	-	-	-	<0.5
Bromobenzene	µg/L	0.5		-	-	-	-	<0.5
2-chlorotoluene	µg/L	0.5		-	-	-	-	<0.5
4-chlorotoluene	µg/L	0.5		-	-	-	-	<0.5
1,3-dichlorobenzene	µg/L	0.5		-	-	-	-	<0.5
1,4-dichlorobenzene	µg/L	0.3		-	-	-	-	<0.3
1,2-dichlorobenzene	µg/L	0.5		-	-	-	-	<0.5
1,2,4-trichlorobenzene	µg/L	0.5		-	-	-	-	<0.5
1,2,3-trichlorobenzene	µg/L	0.5		-	-	-	-	<0.5
Monocyclic Aromatic Hydrocarbons								
Benzene	µg/L	0.5		-	-	-	-	<0.5
Toluene	µg/L	0.5		-	-	-	-	<0.5
Ethylbenzene	µg/L	0.5		-	-	-	-	<0.5
m/p-xylene	µg/L	1		-	-	-	-	<1
Styrene (Vinyl benzene)	µg/L	0.5		-	-	-	-	<0.5
o-xylene	µg/L	0.5		-	-	-	-	<0.5
Isopropylbenzene (Cumene)	µg/L	0.5		-	-	-	-	<0.5
n-propylbenzene	µg/L	0.5		-	-	-	-	<0.5
1,3,5-trimethylbenzene	µg/L	0.5		-	-	-	-	<0.5
tert-butylbenzene	µg/L	0.5		-	-	-	-	<0.5
1,2,4-trimethylbenzene	µg/L	0.5		-	-	-	-	<0.5
sec-butylbenzene	µg/L	0.5		-	-	-	-	<0.5
p-isopropyltoluene	µg/L	0.5		-	-	-	-	<0.5
n-butylbenzene	µg/L	0.5		-	-	-	-	<0.5

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
VOCs in Water Method: AN433/AN434 (continued)								
Nitrogenous Compounds								
Acrylonitrile	µg/L	0.5		-	-	-	-	<0.5
Oxygenated Compounds								
Acetone (2-propanone)	µg/L	10		-	-	-	-	<10
MtBE (Methyl-tert-butyl ether)	µg/L	2		-	-	-	-	<2
Vinyl acetate	µg/L	10		-	-	-	-	<10
MEK (2-butanone)	µg/L	10		-	-	-	-	<10
MIBK (4-methyl-2-pentanone)	µg/L	5		-	-	-	-	<5
2-hexanone (MBK)	µg/L	5		-	-	-	-	<5
Polycyclic VOCs								
Naphthalene	µg/L	0.5		-	-	-	-	<0.5
Sulphonated Compounds								
Carbon disulfide	µg/L	2		-	-	-	-	<2
Surrogates								
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	**104**
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	**113**
d8-toluene (Surrogate)	%	-		-	-	-	-	**100**
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	**108**
Totals								
Total VOC	µg/L	10		-	-	-	-	-
Trihalomethanes								
Chloroform (THM)	µg/L	0.5		-	-	-	-	<0.5
Bromodichloromethane (THM)	µg/L	0.5		-	-	-	-	<0.5
Dibromochloromethane (THM)	µg/L	0.5		-	-	-	-	<0.5
Bromoform (THM)	µg/L	0.5		-	-	-	-	<0.5
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434								
TRH C6-C9	µg/L	40		-	-	-	-	<40
Benzene	µg/L	0.5		-	-	-	-	<0.5
Toluene	µg/L	0.5		-	-	-	-	**0.5**
Ethylbenzene	µg/L	0.5		-	-	-	-	<0.5
m/p-xylene	µg/L	1		-	-	-	-	**1**
o-xylene	µg/L	0.5		-	-	-	-	<0.5
Total BTEX*	µg/L	3		-	-	-	-	<3
Total Xylenes*	µg/L	1.5		-	-	-	-	<1.5
Surrogates								
Trifluorotoluene (Surrogate)	%	-		-	-	-	-	**71**
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403								
TRH C10-C14	µg/L	100		-	-	-	-	<100
TRH C15-C28	µg/L	200		-	-	-	-	<200
TRH C29-C36	µg/L	200		-	-	-	-	<200

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.006 Soil 02 Jun 2011 BH3 1.0m	SE100639.007 Soil 02 Jun 2011 BH3 2.5m	SE100639.008 Soil 02 Jun 2011 BH3 5.5m	SE100639.009 Soil 02 Jun 2011 QC01	SE100639.010 Water 03 Jun 2011 QC02
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)								
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420								
Naphthalene	µg/L	0.1		-	-	-	-	<0.1
Acenaphthylene	µg/L	0.1		-	-	-	-	<0.1
Acenaphthene	µg/L	0.1		-	-	-	-	<0.1
Fluorene	µg/L	0.1		-	-	-	-	<0.1
Phenanthrene	µg/L	0.1		-	-	-	-	<0.1
Anthracene	µg/L	0.1		-	-	-	-	<0.1
Fluoranthene	µg/L	0.1		-	-	-	-	<0.1
Pyrene	µg/L	0.1		-	-	-	-	<0.1
Benzo(a)anthracene	µg/L	0.1		-	-	-	-	<0.1
Chrysene	µg/L	0.1		-	-	-	-	<0.1
Benzo(b)fluoranthene	µg/L	0.1		-	-	-	-	<0.1
Benzo(k)fluoranthene	µg/L	0.1		-	-	-	-	<0.1
Benzo(a)pyrene	µg/L	0.1		-	-	-	-	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1		-	-	-	-	<0.1
Dibenzo(a&h)anthracene	µg/L	0.1		-	-	-	-	<0.1
Benzo(ghi)perylene	µg/L	0.1		-	-	-	-	<0.1
Total PAH (18)*	µg/L	1		-	-	-	-	<1
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-	**86**
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-	**83**
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-	**96**
Trace Metals (Dissolved) in Water by ICPMS Method: AN318								
Arsenic, As	µg/L	1		-	-	-	-	<1
Cadmium, Cd	µg/L	0.1		-	-	-	-	<0.1
Chromium, Cr	µg/L	1		-	-	-	-	<1
Copper, Cu	µg/L	1		-	-	-	-	<1
Lead, Pb	µg/L	1		-	-	-	-	<1
Nickel, Ni	µg/L	1		-	-	-	-	<1
Zinc, Zn	µg/L	1		-	-	-	-	**46**
Mercury (dissolved) in Water Method: AN311/AN312								
Mercury	mg/L	0.0001		-	-	-	-	<0.0001

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100639.011 Soil 03 Jun 2011 BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
VOC's in Soil Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	mg/kg	0.1		-	-	<0.1	-
1,2-dichloropropane	mg/kg	0.1		-	-	<0.1	-
cis-1,3-dichloropropene	mg/kg	0.1		-	-	<0.1	-
trans-1,3-dichloropropene	mg/kg	0.1		-	-	<0.1	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	<0.1	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
VOC's in Soil Method: AN433/AN434 (continued)						
Halogenated Aliphatics						
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-	-	<1	-
Chloromethane	mg/kg	1	-	-	<1	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-	-	<0.1	-
Bromomethane	mg/kg	1	-	-	<1	-
Chloroethane	mg/kg	1	-	-	<1	-
Trichlorofluoromethane	mg/kg	1	-	-	<1	-
Iodomethane	mg/kg	5	-	-	<5	-
1,1-dichloroethene	mg/kg	0.1	-	-	<0.1	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-	-	<0.5	-
Allyl chloride	mg/kg	0.1	-	-	<0.1	-
trans-1,2-dichloroethene	mg/kg	0.1	-	-	<0.1	-
1,1-dichloroethane	mg/kg	0.1	-	-	<0.1	-
cis-1,2-dichloroethene	mg/kg	0.1	-	-	<0.1	-
Bromochloromethane	mg/kg	0.1	-	-	<0.1	-
1,2-dichloroethane	mg/kg	0.1	-	-	<0.1	-
1,1,1-trichloroethane	mg/kg	0.1	-	-	<0.1	-
1,1-dichloropropene	mg/kg	0.1	-	-	<0.1	-
Carbon tetrachloride	mg/kg	0.1	-	-	<0.1	-
Dibromomethane	mg/kg	0.1	-	-	<0.1	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	-	-	<0.1	-
1,1,2-trichloroethane	mg/kg	0.1	-	-	<0.1	-
1,3-dichloropropane	mg/kg	0.1	-	-	<0.1	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-	-	<0.1	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-	-	<0.1	-
cis-1,4-dichloro-2-butene	mg/kg	1	-	-	<1	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-	-	<0.1	-
1,2,3-trichloropropane	mg/kg	0.1	-	-	<0.1	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	<1	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	<0.1	-
Hexachlorobutadiene	mg/kg	0.1	-	-	<0.1	-
Halogenated Aromatics						
Chlorobenzene	mg/kg	0.1	-	-	<0.1	-
Bromobenzene	mg/kg	0.1	-	-	<0.1	-
2-chlorotoluene	mg/kg	0.1	-	-	<0.1	-
4-chlorotoluene	mg/kg	0.1	-	-	<0.1	-
1,3-dichlorobenzene	mg/kg	0.1	-	-	<0.1	-
1,4-dichlorobenzene	mg/kg	0.1	-	-	<0.1	-
1,2-dichlorobenzene	mg/kg	0.1	-	-	<0.1	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	<0.1	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	<0.1	-
Monocyclic Aromatic Hydrocarbons						
Benzene	mg/kg	0.1	-	-	<0.1	-
Toluene	mg/kg	0.1	-	-	<0.1	-
Ethylbenzene	mg/kg	0.1	-	-	<0.1	-
m/p-xylene	mg/kg	0.2	-	-	<0.2	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	<0.1	-
o-xylene	mg/kg	0.1	-	-	<0.1	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	<0.1	-
n-propylbenzene	mg/kg	0.1	-	-	<0.1	-
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	<0.1	-
tert-butylbenzene	mg/kg	0.1	-	-	<0.1	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	<0.1	-
sec-butylbenzene	mg/kg	0.1	-	-	<0.1	-
p-isopropyltoluene	mg/kg	0.1	-	-	<0.1	-
n-butylbenzene	mg/kg	0.1	-	-	<0.1	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
VOC's in Soil Method: AN433/AN434 (continued)						
Nitrogenous Compounds						
Acrylonitrile	mg/kg	0.1	-	-	<0.1	-
Oxygenated Compounds						
Acetone (2-propanone)	mg/kg	10	-	-	<10	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	<0.5	-
Vinyl acetate	mg/kg	10	-	-	<10	-
MEK (2-butanone)	mg/kg	10	-	-	<10	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	<1	-
2-hexanone (MBK)	mg/kg	5	-	-	<5	-
Polycyclic VOCs						
Naphthalene	mg/kg	0.1	-	-	<0.1	-
Sulphonated Compounds						
Carbon disulfide	mg/kg	0.5	-	-	<0.5	-
Surrogates						
Dibromofluoromethane (Surrogate)	%	-	-	-	**90**	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	**101**	-
d8-toluene (Surrogate)	%	-	-	-	**117**	-
Bromofluorobenzene (Surrogate)	%	-	-	-	**114**	-
Totals						
Total BTEX*	mg/kg	-	-	-	**0**	-
Total Xylenes*	mg/kg	0.3	-	-	<0.3	-
Total VOC*	mg/kg	24	-	-	-	-
Trihalomethanes						
Chloroform	mg/kg	0.1	-	-	<0.1	-
Bromodichloromethane	mg/kg	0.1	-	-	<0.1	-
Chlorodibromomethane	mg/kg	0.1	-	-	<0.1	-
Bromoform	mg/kg	0.1	-	-	<0.1	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434						
TRH C6-C9	mg/kg	20	<20	-	<20	<20
Benzene	mg/kg	0.1	<0.1	-	-	<0.1
Toluene	mg/kg	0.1	<0.1	-	-	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	-	-	<0.1
m/p-xylene	mg/kg	1	<1	-	-	<1
o-xylene	mg/kg	0.5	<0.5	-	-	<0.5
Total Xylenes	mg/kg	0.3	<0.3	-	-	<0.3
Total BTEX*	mg/kg	2.7	<2.7	-	-	<2.7
Surrogates						
Trifluorotoluene (Surrogate)	%	-	**111**	-	**103**	**102**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
Full 8270 SVOC in Soil Method: AN420						
PAHs						
Acenaphthene	mg/kg	0.5	-	-	-	-
Acenaphthylene	mg/kg	0.5	-	-	-	-
Anthracene	mg/kg	0.5	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	-	-	-
Chrysene	mg/kg	0.5	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	-	-	-
Fluoranthene	mg/kg	0.5	-	-	-	-
Fluorene	mg/kg	0.5	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	-	-	-
Naphthalene	mg/kg	0.5	-	-	-	-
Phenanthrene	mg/kg	0.5	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-
OCs						
Aldrin	mg/kg	0.5	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-
OPs						
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
Full 8270 SVOC in Soil Method: AN420 (continued)						
Dimethoate	mg/kg	1	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-
EPN*	mg/kg	1	-	-	-	-
Ethion	mg/kg	1	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-
Phorate	mg/kg	1	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-
Pirimiphos-methyl	mg/kg	1	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-
PCB UPAC(7) Congeners						
PCB Congener C28	mg/kg	0.5	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)						
Hexachlorobenzene	mg/kg	0.5	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
Full 8270 SVOC in Soil Method: AN420 (continued)						
Phthalates						
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-
Carbamates						
Carbofuran	mg/kg	0.5	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-
Herbicides (normal)						
Trifluralin	mg/kg	0.5	-	-	-	-
Nitrosamines						
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-
Nitroaromatics and Ketones						
Acetophenone	mg/kg	0.5	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-
Phenacetin	mg/kg	1	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-
Anilines and Amines						
Aniline	mg/kg	3	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-
Haloethers						
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
Full 8270 SVOC in Soil Method: AN420 (continued)						
Other SVOCs						
Methyl methanesulfonate	mg/kg	1	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	-	-	-
Dibenzofuran	mg/kg	0.5	-	-	-	-
Benzyl alcohol	mg/kg	1	-	-	-	-
Safrole	mg/kg	0.5	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-
Thionazin	mg/kg	1	-	-	-	-
Speciated Routine Phenols						
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-
2-chlorophenol	mg/kg	0.5	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-
2-nitrophenol	mg/kg	0.5	-	-	-	-
Phenol	mg/kg	0.5	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-
Pentachlorophenol	mg/kg	0.5	-	-	-	-
4-nitrophenol	mg/kg	0.5	-	-	-	-
Surrogates						
d5-phenol (Surrogate)	%	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403						
TRH C10-C14	mg/kg	20	<20	-	<20	<20
TRH C15-C28	mg/kg	50	<50	-	**130**	**140**
TRH C29-C36	mg/kg	50	<50	-	**92**	**88**
Surrogates						
TRH (Surrogate)	%	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420						
Naphthalene	mg/kg	0.1	<0.1	-	**0.1**	-
Acenaphthylene	mg/kg	0.1	<0.1	-	**0.2**	-
Acenaphthene	mg/kg	0.1	<0.1	-	<0.1	-
Fluorene	mg/kg	0.1	<0.1	-	**0.2**	-
Phenanthrene	mg/kg	0.1	<0.1	-	**1.1**	-
Anthracene	mg/kg	0.1	<0.1	-	**0.4**	-
Fluoranthene	mg/kg	0.1	<0.1	-	**1.7**	-
Pyrene	mg/kg	0.1	<0.1	-	**1.6**	-
Benzo(a)anthracene	mg/kg	0.1	<0.1	-	**0.9**	-
Chrysene	mg/kg	0.1	<0.1	-	**0.7**	-
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	-	**0.9**	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	**0.3**	-
Benzo(a)pyrene	mg/kg	0.05	<0.05	-	**0.86**	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	**0.4**	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	**0.1**	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100639.011 Soil 03 Jun 2011 BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)						
Benzo(ghi)perylene	mg/kg	0.1	<0.1	-	**0.5**	-
Total PAH	mg/kg	1.75	<1.8↑	-	**10**	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	**121**	-	**122**	-
2-fluorobiphenyl (Surrogate)	%	-	**106**	-	**106**	-
d14-p-terphenyl (Surrogate)	%	-	**103**	-	**101**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320						
Arsenic, As	mg/kg	3	**4**	-	**28**	**23**
Cadmium, Cd	mg/kg	0.3	<0.3	-	**0.4**	**0.4**
Chromium, Cr	mg/kg	0.3	**7.4**	-	**11**	**16**
Copper, Cu	mg/kg	0.5	**9.9**	-	**56**	**51**
Lead, Pb	mg/kg	1	**15**	-	**98**	**93**
Nickel, Ni	mg/kg	0.5	**11**	-	**7.0**	**11**
Zinc, Zn	mg/kg	0.5	**38**	-	**110**	**160**
Mercury in Soil Method: AN312						
Mercury	mg/kg	0.05	<0.05	-	**0.37**	**0.55**
Fibre Identification in soil Method: AN602						
FibreID						
Asbestos Detected	No unit	-	No	No	-	-
Moisture Content Method: AN234						
% Moisture	%	0.5	**8.5**	-	**17**	**13**
VOCs in Water Method: AN433/AN434						
Fumigants						
2,2-dichloropropane	µg/L	0.5	-	-	-	-
1,2-dichloropropane	µg/L	0.5	-	-	-	-
cis-1,3-dichloropropene	µg/L	0.5	-	-	-	-
trans-1,3-dichloropropene	µg/L	0.5	-	-	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	-	-	-	-
Halogenated Aliphatics						
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	-	-	-
Chloromethane	µg/L	5	-	-	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	-	-	-
Bromomethane	µg/L	10	-	-	-	-
Chloroethane	µg/L	5	-	-	-	-
Trichlorofluoromethane	µg/L	1	-	-	-	-
Iodomethane	µg/L	5	-	-	-	-
1,1-dichloroethene	µg/L	0.5	-	-	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	-	-	-
Allyl chloride	µg/L	2	-	-	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	-	-	-
1,1-dichloroethane	µg/L	0.5	-	-	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	-	-	-
Bromochloromethane	µg/L	0.5	-	-	-	-
1,2-dichloroethane	µg/L	0.5	-	-	-	-
1,1,1-trichloroethane	µg/L	0.5	-	-	-	-
1,1-dichloropropene	µg/L	0.5	-	-	-	-
Carbon tetrachloride	µg/L	0.5	-	-	-	-
Dibromomethane	µg/L	0.5	-	-	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	-	-	-
1,1,2-trichloroethane	µg/L	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100639.011 Soil 03 Jun 2011 BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
VOCs in Water Method: AN433/AN434 (continued)						
1,3-dichloropropane	µg/L	0.5	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	-	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	-	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-	-	-	-
1,2,3-trichloropropane	µg/L	0.5	-	-	-	-
trans-1,4-dichloro-2-butene	µg/L	1	-	-	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	-	-	-
Hexachlorobutadiene	µg/L	0.5	-	-	-	-
Halogenated Aromatics						
Chlorobenzene	µg/L	0.5	-	-	-	-
Bromobenzene	µg/L	0.5	-	-	-	-
2-chlorotoluene	µg/L	0.5	-	-	-	-
4-chlorotoluene	µg/L	0.5	-	-	-	-
1,3-dichlorobenzene	µg/L	0.5	-	-	-	-
1,4-dichlorobenzene	µg/L	0.3	-	-	-	-
1,2-dichlorobenzene	µg/L	0.5	-	-	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	-	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	-	-	-
Monocyclic Aromatic Hydrocarbons						
Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
Styrene (Vinyl benzene)	µg/L	0.5	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	-	-	-
n-propylbenzene	µg/L	0.5	-	-	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	-	-	-
tert-butylbenzene	µg/L	0.5	-	-	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	-	-	-
sec-butylbenzene	µg/L	0.5	-	-	-	-
p-isopropyltoluene	µg/L	0.5	-	-	-	-
n-butylbenzene	µg/L	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
VOCs in Water Method: AN433/AN434 (continued)						
Nitrogenous Compounds						
Acrylonitrile	µg/L	0.5	-	-	-	-
Oxygenated Compounds						
Acetone (2-propanone)	µg/L	10	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	-	-	-	-
Vinyl acetate	µg/L	10	-	-	-	-
MEK (2-butanone)	µg/L	10	-	-	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	-	-	-
2-hexanone (MBK)	µg/L	5	-	-	-	-
Polycyclic VOCs						
Naphthalene	µg/L	0.5	-	-	-	-
Sulphonated Compounds						
Carbon disulfide	µg/L	2	-	-	-	-
Surrogates						
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
Totals						
Total VOC	µg/L	10	-	-	-	-
Trihalomethanes						
Chloroform (THM)	µg/L	0.5	-	-	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	-	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	-	-	-
Bromoform (THM)	µg/L	0.5	-	-	-	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434						
TRH C6-C9	µg/L	40	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-
Surrogates						
Trifluorotoluene (Surrogate)	%	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403						
TRH C10-C14	µg/L	100	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.011 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: BH2 0.6m	SE100639.013 Soil 03 Jun 2011 BH2 1.5m	SE100639.014 Soil 03 Jun 2011 BH2 2-2.2m	SE100639.015 Soil 03 Jun 2011 BH2 2.5m
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)						
Surrogates						
TRH (Surrogate)	%	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420						
Naphthalene	µg/L	0.1	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318						
Arsenic, As	µg/L	1	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-
Zinc, Zn	µg/L	1	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312						
Mercury	mg/L	0.0001	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
VOC's in Soil Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	-	-	-	<0.1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	-	-	-	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	-	-	-	<0.1

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
VOC's in Soil Method: AN433/AN434 (continued)							
Halogenated Aliphatics							
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	-	-	-	<1
Chloromethane	mg/kg	1	<1	-	-	-	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	-	-	-	<0.1
Bromomethane	mg/kg	1	<1	-	-	-	<1
Chloroethane	mg/kg	1	<1	-	-	-	<1
Trichlorofluoromethane	mg/kg	1	<1	-	-	-	<1
Iodomethane	mg/kg	5	<5	-	-	-	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	-	-	-	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	-	-	-	<0.5
Allyl chloride	mg/kg	0.1	<0.1	-	-	-	<0.1
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	-	-	-	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	-	-	-	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	-	-	-	<0.1
Dibromomethane	mg/kg	0.1	<0.1	-	-	-	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	-	-	-	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	-	-	-	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	-	-	-	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-	<1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	-	-	-	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	-	-	-	<1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	-	-	-	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	-	-	-	<0.1
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
Bromobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	-	-	-	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	<0.1	-	-	-	<0.1
Toluene	mg/kg	0.1	<0.1	-	-	-	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
m/p-xylene	mg/kg	0.2	<0.2	-	-	-	<0.2
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	-	-	-	<0.1
o-xylene	mg/kg	0.1	<0.1	-	-	-	<0.1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	-	-	-	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	-	-	-	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
VOC's in Soil Method: AN433/AN434 (continued)							
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	<0.1	-	-	-	<0.1
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	<10	-	-	-	<10
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	<0.5	-	-	-	<0.5
Vinyl acetate	mg/kg	10	<10	-	-	-	<10
MEK (2-butanone)	mg/kg	10	<10	-	-	-	<10
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	-	-	-	<1
2-hexanone (MBK)	mg/kg	5	<5	-	-	-	<5
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	<0.1	-	-	-	<0.1
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	<0.5	-	-	-	<0.5
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	**95**	-	-	-	**89**
d4-1,2-dichloroethane (Surrogate)	%	-	**100**	-	-	-	**104**
d8-toluene (Surrogate)	%	-	**82**	-	-	-	**120**
Bromofluorobenzene (Surrogate)	%	-	**107**	-	-	-	**102**
Totals							
Total BTEX*	mg/kg	-	**0**	-	-	-	**0**
Total Xylenes*	mg/kg	0.3	<0.3	-	-	-	<0.3
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	<0.1	-	-	-	<0.1
Bromodichloromethane	mg/kg	0.1	<0.1	-	-	-	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	-	-	-	<0.1
Bromoform	mg/kg	0.1	<0.1	-	-	-	<0.1
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	<20	-	-	<20
Benzene	mg/kg	0.1	-	<0.1	-	-	-
Toluene	mg/kg	0.1	-	<0.1	-	-	-
Ethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
m/p-xylene	mg/kg	1	-	<1	-	-	-
o-xylene	mg/kg	0.5	-	<0.5	-	-	-
Total Xylenes	mg/kg	0.3	-	<0.3	-	-	-
Total BTEX*	mg/kg	2.7	-	<2.7	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**115**	**104**	-	-	**99**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	-	-	-	-	<0.5
Acenaphthylene	mg/kg	0.5	-	-	-	-	<0.5
Anthracene	mg/kg	0.5	-	-	-	-	<0.5
Benzo(a)anthracene	mg/kg	0.5	-	-	-	-	<0.5
Benzo(b&k)fluoranthene	mg/kg	1	-	-	-	-	<1
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-	<0.5
Benzo(a)pyrene	mg/kg	0.5	-	-	-	-	<0.5
Chrysene	mg/kg	0.5	-	-	-	-	<0.5
Dibenzo(ah)anthracene	mg/kg	0.5	-	-	-	-	<0.5
Fluoranthene	mg/kg	0.5	-	-	-	-	**0.6**
Fluorene	mg/kg	0.5	-	-	-	-	<0.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	-	-	<0.5
1-methylnaphthalene	mg/kg	0.5	-	-	-	-	<0.5
2-methylnaphthalene	mg/kg	0.5	-	-	-	-	<0.5
Naphthalene	mg/kg	0.5	-	-	-	-	<0.5
Phenanthrene	mg/kg	0.5	-	-	-	-	<0.5
Pyrene	mg/kg	0.5	-	-	-	-	**1.2**
2-acetylamino fluorene	mg/kg	2	-	-	-	-	<2
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-	<0.5
3-methylcholanthrene	mg/kg	1	-	-	-	-	<1
OCs							
Aldrin	mg/kg	0.5	-	-	-	-	<0.5
Alpha-BHC	mg/kg	0.5	-	-	-	-	<0.5
Beta-BHC	mg/kg	0.5	-	-	-	-	<0.5
Delta-BHC	mg/kg	0.5	-	-	-	-	<0.5
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-	<0.5
p,p-DDD	mg/kg	0.5	-	-	-	-	<0.5
p,p-DDE	mg/kg	0.5	-	-	-	-	<0.5
p,p-DDT	mg/kg	0.5	-	-	-	-	<0.5
Dieldrin	mg/kg	0.5	-	-	-	-	<0.5
Alpha-endosulfan	mg/kg	0.5	-	-	-	-	<0.5
Beta-endosulfan	mg/kg	0.5	-	-	-	-	<0.5
Endosulfan sulphate	mg/kg	0.5	-	-	-	-	<0.5
Endrin	mg/kg	0.5	-	-	-	-	<0.5
Heptachlor	mg/kg	0.5	-	-	-	-	<0.5
Heptachlor epoxide	mg/kg	0.5	-	-	-	-	<0.5
Isodrin	mg/kg	0.5	-	-	-	-	<0.5
Methoxychlor	mg/kg	0.5	-	-	-	-	<0.5
Mirex	mg/kg	0.5	-	-	-	-	<0.5
Alpha-chlordane	mg/kg	0.5	-	-	-	-	<0.5
Gamma-chlordane	mg/kg	0.5	-	-	-	-	<0.5
Endrin ketone	mg/kg	0.5	-	-	-	-	<0.5
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-	<1
Bromophos ethyl	mg/kg	1	-	-	-	-	<1
Carbophenothion	mg/kg	1	-	-	-	-	<1
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-	<5
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-	<1
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-	<1
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-	<1
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-	<1
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-	<1
Dichlorvos	mg/kg	1	-	-	-	-	<1
Demeton-S-methyl	mg/kg	1	-	-	-	-	<1

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
Full 8270 SVOC in Soil Method: AN420 (continued)							
Dimethoate	mg/kg	1	-	-	-	-	<1
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-	<1
EPN*	mg/kg	1	-	-	-	-	<1
Ethion	mg/kg	1	-	-	-	-	<1
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-	<1
Famphur (Famophos)	mg/kg	1	-	-	-	-	<1
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-	<1
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-	<1
Fenitrothion	mg/kg	1	-	-	-	-	<1
Fenthion	mg/kg	1	-	-	-	-	<1
Malathion (Maldison)	mg/kg	1	-	-	-	-	<1
Methidathion	mg/kg	1	-	-	-	-	<1
Mevinphos-cis/trans	mg/kg	2	-	-	-	-	<2
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-	<1
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-	<1
Parathion methyl	mg/kg	1	-	-	-	-	<1
Phorate	mg/kg	1	-	-	-	-	<1
Pirimiphos-ethyl	mg/kg	1	-	-	-	-	<1
Pirimiphos-methyl	mg/kg	1	-	-	-	-	<1
Profenofos	mg/kg	1	-	-	-	-	<1
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-	<1
Sulfotepp	mg/kg	1	-	-	-	-	<1
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-	<1
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C52	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C101	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C118	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C138	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C153	mg/kg	0.5	-	-	-	-	<0.5
PCB Congener C180	mg/kg	0.5	-	-	-	-	<0.5
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	<0.5
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-	<1
Hexachloroethane	mg/kg	0.5	-	-	-	-	<0.5
Hexachloroproprene	mg/kg	0.5	-	-	-	-	<0.5
Pentachlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
Pentachloroethane	mg/kg	0.5	-	-	-	-	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-	<1
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-	<0.5
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-	<1
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-	<0.5

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-	<5
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-	<0.5
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-	<0.5
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-	<0.5
Diethyl phthalate	mg/kg	0.5	-	-	-	-	<0.5
Dimethyl phthalate	mg/kg	0.5	-	-	-	-	<0.5
Dioctyl phthalate	mg/kg	0.5	-	-	-	-	<0.5
Carbamates							
Carbofuran	mg/kg	0.5	-	-	-	-	<0.5
Carbaryl	mg/kg	0.5	-	-	-	-	<0.5
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	-	-	-	<0.5
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-	<0.5
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-	<1
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-	<0.5
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-	<0.5
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-	<0.5
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-	<1
4-amino biphenyl	mg/kg	1	-	-	-	-	<1
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	-	-	-	<0.5
1,3-dinitrobenzene	mg/kg	1	-	-	-	-	<1
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-	<0.5
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-	<0.5
Isophorone	mg/kg	0.5	-	-	-	-	<0.5
Nitrobenzene	mg/kg	0.5	-	-	-	-	<0.5
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-	<1
Phenacetin	mg/kg	1	-	-	-	-	<1
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-	<0.5
Anilines and Amines							
Aniline	mg/kg	3	-	-	-	-	<3
4-chloroaniline	mg/kg	1	-	-	-	-	<1
2-nitroaniline	mg/kg	1	-	-	-	-	<1
3-nitroaniline	mg/kg	1	-	-	-	-	<1
4-nitroaniline	mg/kg	1	-	-	-	-	<1
Diphenylamine	mg/kg	0.5	-	-	-	-	<0.5
o-toluidine	mg/kg	1	-	-	-	-	<1
5-nitro-o-toluidine	mg/kg	1	-	-	-	-	<1
1-naphthylamine	mg/kg	1	-	-	-	-	<1
2-naphthylamine	mg/kg	1	-	-	-	-	<1
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-	<0.5
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-	<0.5
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-	<0.5
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-	<0.5
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-	<0.5

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
Full 8270 SVOC in Soil Method: AN420 (continued)							
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	-	-	-	-	<1
Ethyl methanesulfonate	mg/kg	1	-	-	-	-	<1
Dibenzofuran	mg/kg	0.5	-	-	-	-	<0.5
Benzyl alcohol	mg/kg	1	-	-	-	-	<1
Safrole	mg/kg	0.5	-	-	-	-	<0.5
Isosafrole Isomer 1	mg/kg	1	-	-	-	-	<1
Isosafrole Isomer 2	mg/kg	1	-	-	-	-	<1
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-	<0.5
Thionazin	mg/kg	1	-	-	-	-	<1
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-	<1
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-	<0.5
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-	<0.5
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-	<1
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-	<0.5
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-	<1
2-chlorophenol	mg/kg	0.5	-	-	-	-	<0.5
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-	<0.5
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-	<0.5
2-nitrophenol	mg/kg	0.5	-	-	-	-	<0.5
Phenol	mg/kg	0.5	-	-	-	-	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-	<0.5
Pentachlorophenol	mg/kg	0.5	-	-	-	-	<0.5
4-nitrophenol	mg/kg	0.5	-	-	-	-	<0.5
Surrogates							
d5-phenol (Surrogate)	%	-	-	-	-	-	**101**
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	**120**
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	**100**
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-	**113**
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	**120**
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	<20	-	-	<20
TRH C15-C28	mg/kg	50	**140**	<50	-	-	**380**
TRH C29-C36	mg/kg	50	**85**	<50	-	-	**110**
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	**0.1**	<0.1	-	-	-
Acenaphthylene	mg/kg	0.1	**0.3**	<0.1	-	-	-
Acenaphthene	mg/kg	0.1	<0.1	<0.1	-	-	-
Fluorene	mg/kg	0.1	**0.2**	<0.1	-	-	-
Phenanthrene	mg/kg	0.1	**1.4**	**0.3**	-	-	-
Anthracene	mg/kg	0.1	**0.6**	**0.1**	-	-	-
Fluoranthene	mg/kg	0.1	**2.2**	**0.7**	-	-	-
Pyrene	mg/kg	0.1	**2.1**	**0.6**	-	-	-
Benzo(a)anthracene	mg/kg	0.1	**1.2**	**0.3**	-	-	-
Chrysene	mg/kg	0.1	**0.9**	**0.3**	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	**1.1**	**0.4**	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	**0.6**	**0.2**	-	-	-
Benzo(a)pyrene	mg/kg	0.05	**1.1**	**0.35**	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.5**	**0.2**	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	**0.1**	<0.1	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100639.016 Soil 03 Jun 2011 QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)							
Benzo(ghi)perylene	mg/kg	0.1	**0.6**	**0.2**	-	-	-
Total PAH	mg/kg	1.75	**13**	**3.8**	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**126**	**123**	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	**108**	**107**	-	-	-
d14-p-terphenyl (Surrogate)	%	-	**102**	**101**	-	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	**21**	**12**	-	-	**14**
Cadmium, Cd	mg/kg	0.3	**0.4**	<0.3	-	-	<0.3
Chromium, Cr	mg/kg	0.3	**16**	**10**	-	-	**12**
Copper, Cu	mg/kg	0.5	**56**	**63**	-	-	**42**
Lead, Pb	mg/kg	1	**140**	**47**	-	-	**110**
Nickel, Ni	mg/kg	0.5	**8.2**	**5.6**	-	-	**10**
Zinc, Zn	mg/kg	0.5	**100**	**91**	-	-	**110**
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	**0.40**	**0.15**	-	-	**0.64**
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	-	No	No	-
Moisture Content Method: AN234							
% Moisture	%	0.5	**16**	**12**	-	-	**15**
VOCs in Water Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	µg/L	0.5	-	-	-	-	-
1,2-dichloropropane	µg/L	0.5	-	-	-	-	-
cis-1,3-dichloropropene	µg/L	0.5	-	-	-	-	-
trans-1,3-dichloropropene	µg/L	0.5	-	-	-	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	-	-	-	-	-
Halogenated Aliphatics							
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	-	-	-	-
Chloromethane	µg/L	5	-	-	-	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	-	-	-	-
Bromomethane	µg/L	10	-	-	-	-	-
Chloroethane	µg/L	5	-	-	-	-	-
Trichlorofluoromethane	µg/L	1	-	-	-	-	-
Iodomethane	µg/L	5	-	-	-	-	-
1,1-dichloroethene	µg/L	0.5	-	-	-	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	-	-	-	-
Allyl chloride	µg/L	2	-	-	-	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	-	-	-	-
1,1-dichloroethane	µg/L	0.5	-	-	-	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	-	-	-	-
Bromochloromethane	µg/L	0.5	-	-	-	-	-
1,2-dichloroethane	µg/L	0.5	-	-	-	-	-
1,1,1-trichloroethane	µg/L	0.5	-	-	-	-	-
1,1-dichloropropene	µg/L	0.5	-	-	-	-	-
Carbon tetrachloride	µg/L	0.5	-	-	-	-	-
Dibromomethane	µg/L	0.5	-	-	-	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	-	-	-	-
1,1,2-trichloroethane	µg/L	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
VOCs in Water Method: AN433/AN434 (continued)							
1,3-dichloropropane	µg/L	0.5	-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	-	-	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	-	-	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-	-	-	-	-
1,2,3-trichloropropane	µg/L	0.5	-	-	-	-	-
trans-1,4-dichloro-2-butene	µg/L	1	-	-	-	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	-	-	-	-
Hexachlorobutadiene	µg/L	0.5	-	-	-	-	-
Halogenated Aromatics							
Chlorobenzene	µg/L	0.5	-	-	-	-	-
Bromobenzene	µg/L	0.5	-	-	-	-	-
2-chlorotoluene	µg/L	0.5	-	-	-	-	-
4-chlorotoluene	µg/L	0.5	-	-	-	-	-
1,3-dichlorobenzene	µg/L	0.5	-	-	-	-	-
1,4-dichlorobenzene	µg/L	0.3	-	-	-	-	-
1,2-dichlorobenzene	µg/L	0.5	-	-	-	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	-	-	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	-	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
Styrene (Vinyl benzene)	µg/L	0.5	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	-	-	-	-
n-propylbenzene	µg/L	0.5	-	-	-	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	-	-	-	-
tert-butylbenzene	µg/L	0.5	-	-	-	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	-	-	-	-
sec-butylbenzene	µg/L	0.5	-	-	-	-	-
p-isopropyltoluene	µg/L	0.5	-	-	-	-	-
n-butylbenzene	µg/L	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
VOCs in Water Method: AN433/AN434 (continued)							
Nitrogenous Compounds							
Acrylonitrile	µg/L	0.5	-	-	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	µg/L	10	-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	-	-	-	-	-
Vinyl acetate	µg/L	10	-	-	-	-	-
MEK (2-butanone)	µg/L	10	-	-	-	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	-	-	-	-
2-hexanone (MBK)	µg/L	5	-	-	-	-	-
Polycyclic VOCs							
Naphthalene	µg/L	0.5	-	-	-	-	-
Sulphonated Compounds							
Carbon disulfide	µg/L	2	-	-	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
Totals							
Total VOC	µg/L	10	-	-	-	-	-
Trihalomethanes							
Chloroform (THM)	µg/L	0.5	-	-	-	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	-	-	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	-	-	-	-
Bromoform (THM)	µg/L	0.5	-	-	-	-	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	µg/L	40	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.016 Sample Matrix: Soil Sample Date: 03 Jun 2011 Sample Name: QC03	SE100639.017 Soil 06 Jun 2011 BH4 0.5m	SE100639.018 Soil 06 Jun 2011 BH4 1.0m	SE100639.019 Soil 06 Jun 2011 BH4 1.5m	SE100639.020 Soil 06 Jun 2011 BH4 2.0m
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)							
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318							
Arsenic, As	µg/L	1	-	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-	-
Zinc, Zn	µg/L	1	-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312							
Mercury	mg/L	0.0001	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100639.021 Sample Matrix: Soil Sample Date: 06 Jun 2011 Sample Name: BH4 5.5m
VOC's in Soil Method: AN433/AN434			
Fumigants			
2,2-dichloropropane	mg/kg	0.1	-
1,2-dichloropropane	mg/kg	0.1	-
cis-1,3-dichloropropene	mg/kg	0.1	-
trans-1,3-dichloropropene	mg/kg	0.1	-
1,2-dibromoethane (EDB)	mg/kg	0.1	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
VOC's in Soil Method: AN433/AN434 (continued)			
Halogenated Aliphatics			
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-
Chloromethane	mg/kg	1	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-
Bromomethane	mg/kg	1	-
Chloroethane	mg/kg	1	-
Trichlorofluoromethane	mg/kg	1	-
Iodomethane	mg/kg	5	-
1,1-dichloroethene	mg/kg	0.1	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-
Allyl chloride	mg/kg	0.1	-
trans-1,2-dichloroethene	mg/kg	0.1	-
1,1-dichloroethane	mg/kg	0.1	-
cis-1,2-dichloroethene	mg/kg	0.1	-
Bromochloromethane	mg/kg	0.1	-
1,2-dichloroethane	mg/kg	0.1	-
1,1,1-trichloroethane	mg/kg	0.1	-
1,1-dichloropropene	mg/kg	0.1	-
Carbon tetrachloride	mg/kg	0.1	-
Dibromomethane	mg/kg	0.1	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	-
1,1,2-trichloroethane	mg/kg	0.1	-
1,3-dichloropropane	mg/kg	0.1	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-
cis-1,4-dichloro-2-butene	mg/kg	1	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-
1,2,3-trichloropropane	mg/kg	0.1	-
trans-1,4-dichloro-2-butene	mg/kg	1	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-
Hexachlorobutadiene	mg/kg	0.1	-
Halogenated Aromatics			
Chlorobenzene	mg/kg	0.1	-
Bromobenzene	mg/kg	0.1	-
2-chlorotoluene	mg/kg	0.1	-
4-chlorotoluene	mg/kg	0.1	-
1,3-dichlorobenzene	mg/kg	0.1	-
1,4-dichlorobenzene	mg/kg	0.1	-
1,2-dichlorobenzene	mg/kg	0.1	-
1,2,4-trichlorobenzene	mg/kg	0.1	-
1,2,3-trichlorobenzene	mg/kg	0.1	-
Monocyclic Aromatic Hydrocarbons			
Benzene	mg/kg	0.1	-
Toluene	mg/kg	0.1	-
Ethylbenzene	mg/kg	0.1	-
m/p-xylene	mg/kg	0.2	-
Styrene (Vinyl benzene)	mg/kg	0.1	-
o-xylene	mg/kg	0.1	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-
n-propylbenzene	mg/kg	0.1	-
1,3,5-trimethylbenzene	mg/kg	0.1	-
tert-butylbenzene	mg/kg	0.1	-
1,2,4-trimethylbenzene	mg/kg	0.1	-
sec-butylbenzene	mg/kg	0.1	-
p-isopropyltoluene	mg/kg	0.1	-
n-butylbenzene	mg/kg	0.1	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
VOC's in Soil Method: AN433/AN434 (continued)			
Nitrogenous Compounds			
Acrylonitrile	mg/kg	0.1	-
Oxygenated Compounds			
Acetone (2-propanone)	mg/kg	10	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-
Vinyl acetate	mg/kg	10	-
MEK (2-butanone)	mg/kg	10	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-
2-hexanone (MBK)	mg/kg	5	-
Polycyclic VOCs			
Naphthalene	mg/kg	0.1	-
Sulphonated Compounds			
Carbon disulfide	mg/kg	0.5	-
Surrogates			
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
Totals			
Total BTEX*	mg/kg	-	-
Total Xylenes*	mg/kg	0.3	-
Total VOC*	mg/kg	24	-
Trihalomethanes			
Chloroform	mg/kg	0.1	-
Bromodichloromethane	mg/kg	0.1	-
Chlorodibromomethane	mg/kg	0.1	-
Bromoform	mg/kg	0.1	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434			
TRH C6-C9	mg/kg	20	<20
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	1	<1
o-xylene	mg/kg	0.5	<0.5
Total Xylenes	mg/kg	0.3	<0.3
Total BTEX*	mg/kg	2.7	<2.7
Surrogates			
Trifluorotoluene (Surrogate)	%	-	**102**
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
Full 8270 SVOC in Soil Method: AN420			
PAHs			
Acenaphthene	mg/kg	0.5	-
Acenaphthylene	mg/kg	0.5	-
Anthracene	mg/kg	0.5	-
Benzo(a)anthracene	mg/kg	0.5	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
Full 8270 SVOC in Soil Method: AN420 (continued)			
Benzo(b&k)fluoranthene	mg/kg	1	-
Benzo(b)fluoranthene	mg/kg	0.5	-
Benzo(k)fluoranthene	mg/kg	0.5	-
Benzo(ghi)perylene	mg/kg	0.5	-
Benzo(a)pyrene	mg/kg	0.5	-
Chrysene	mg/kg	0.5	-
Dibenzo(ah)anthracene	mg/kg	0.5	-
Fluoranthene	mg/kg	0.5	-
Fluorene	mg/kg	0.5	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-
1-methylnaphthalene	mg/kg	0.5	-
2-methylnaphthalene	mg/kg	0.5	-
Naphthalene	mg/kg	0.5	-
Phenanthrene	mg/kg	0.5	-
Pyrene	mg/kg	0.5	-
2-acetylamino fluorene	mg/kg	2	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-
3-methylcholanthrene	mg/kg	1	-
OCs			
Aldrin	mg/kg	0.5	-
Alpha-BHC	mg/kg	0.5	-
Beta-BHC	mg/kg	0.5	-
Delta-BHC	mg/kg	0.5	-
Gamma-BHC (Lindane)	mg/kg	0.5	-
p,p-DDD	mg/kg	0.5	-
p,p-DDE	mg/kg	0.5	-
p,p-DDT	mg/kg	0.5	-
Dieldrin	mg/kg	0.5	-
Alpha-endosulfan	mg/kg	0.5	-
Beta-endosulfan	mg/kg	0.5	-
Endosulfan sulphate	mg/kg	0.5	-
Endrin	mg/kg	0.5	-
Heptachlor	mg/kg	0.5	-
Heptachlor epoxide	mg/kg	0.5	-
Isodrin	mg/kg	0.5	-
Methoxychlor	mg/kg	0.5	-
Mirex	mg/kg	0.5	-
Alpha-chlordane	mg/kg	0.5	-
Gamma-chlordane	mg/kg	0.5	-
Endrin ketone	mg/kg	0.5	-
OPs			
Azinphos-methyl (Guthion)	mg/kg	1	-
Bromophos ethyl	mg/kg	1	-
Carbophenothion	mg/kg	1	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-
Chlorpyrifos-methyl	mg/kg	1	-
Co-Ral (Coumaphos)	mg/kg	1	-
Diazinon (Dimpylate)	mg/kg	1	-
Dichlorvos	mg/kg	1	-
Demeton-S-methyl	mg/kg	1	-
Dimethoate	mg/kg	1	-
Disulfoton (Di-syston)	mg/kg	1	-
EPN*	mg/kg	1	-
Ethion	mg/kg	1	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
Full 8270 SVOC in Soil Method: AN420 (continued)			
Famphur (Famophos)	mg/kg	1	-
Fenamiphos (Phenamiphos)	mg/kg	1	-
Fenchlorophos (Ronnel)	mg/kg	1	-
Fenitrothion	mg/kg	1	-
Fenthion	mg/kg	1	-
Malathion (Maldison)	mg/kg	1	-
Methidathion	mg/kg	1	-
Mevinphos-cis/trans	mg/kg	2	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-
Parathion ethyl (Parathion)	mg/kg	1	-
Parathion methyl	mg/kg	1	-
Phorate	mg/kg	1	-
Pirimiphos-ethyl	mg/kg	1	-
Pirimiphos-methyl	mg/kg	1	-
Profenofos	mg/kg	1	-
Prothiophos (Tokuthion)*	mg/kg	1	-
Sulfotepp	mg/kg	1	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-
PCB UPAC(7) Congeners			
PCB Congener C28	mg/kg	0.5	-
PCB Congener C52	mg/kg	0.5	-
PCB Congener C101	mg/kg	0.5	-
PCB Congener C118	mg/kg	0.5	-
PCB Congener C138	mg/kg	0.5	-
PCB Congener C153	mg/kg	0.5	-
PCB Congener C180	mg/kg	0.5	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)			
Hexachlorobenzene	mg/kg	0.5	-
1,2-dichlorobenzene	mg/kg	0.5	-
1,3-dichlorobenzene	mg/kg	0.5	-
1,4-dichlorobenzene	mg/kg	0.5	-
Hexachlorobutadiene	mg/kg	0.5	-
Hexachlorocyclopentadiene	mg/kg	1	-
Hexachloroethane	mg/kg	0.5	-
Hexachloroproprene	mg/kg	0.5	-
Pentachlorobenzene	mg/kg	0.5	-
Pentachloroethane	mg/kg	0.5	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-
1/2-Chloronaphthalene	mg/kg	1	-
1,2,4-trichlorobenzene	mg/kg	0.5	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
Full 8270 SVOC in Soil Method: AN420 (continued)			
Phthalates			
Bis(2-ethylhexyl)phthalate	mg/kg	5	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-
Butyl benzyl phthalate	mg/kg	0.5	-
Di-n-butyl phthalate	mg/kg	0.5	-
Diethyl phthalate	mg/kg	0.5	-
Dimethyl phthalate	mg/kg	0.5	-
Dioctyl phthalate	mg/kg	0.5	-
Carbamates			
Carbofuran	mg/kg	0.5	-
Carbaryl	mg/kg	0.5	-
Herbicides (normal)			
Trifluralin	mg/kg	0.5	-
Nitrosamines			
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-
4-amino biphenyl	mg/kg	1	-
Nitroaromatics and Ketones			
Acetophenone	mg/kg	0.5	-
1,3-dinitrobenzene	mg/kg	1	-
2,4-dinitrotoluene	mg/kg	0.5	-
2,6-dinitrotoluene	mg/kg	0.5	-
Isophorone	mg/kg	0.5	-
Nitrobenzene	mg/kg	0.5	-
p-(dimethylamino) azobenzene	mg/kg	1	-
Phenacetin	mg/kg	1	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-
Anilines and Amines			
Aniline	mg/kg	3	-
4-chloroaniline	mg/kg	1	-
2-nitroaniline	mg/kg	1	-
3-nitroaniline	mg/kg	1	-
4-nitroaniline	mg/kg	1	-
Diphenylamine	mg/kg	0.5	-
o-toluidine	mg/kg	1	-
5-nitro-o-toluidine	mg/kg	1	-
1-naphthylamine	mg/kg	1	-
2-naphthylamine	mg/kg	1	-
Haloethers			
Bis(2-chloroethoxy) methane	mg/kg	0.5	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-
4-bromophenyl phenyl ether	mg/kg	0.5	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
Full 8270 SVOC in Soil Method: AN420 (continued)			
Other SVOCs			
Methyl methanesulfonate	mg/kg	1	-
Ethyl methanesulfonate	mg/kg	1	-
Dibenzofuran	mg/kg	0.5	-
Benzyl alcohol	mg/kg	1	-
Safrole	mg/kg	0.5	-
Isosafrole Isomer 1	mg/kg	1	-
Isosafrole Isomer 2	mg/kg	1	-
1,4-naphthoquinone	mg/kg	0.5	-
Thionazin	mg/kg	1	-
Speciated Routine Phenols			
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-
2,6-dichlorophenol	mg/kg	0.5	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-
2,4,5-trichlorophenol	mg/kg	0.5	-
4-chloro-3-methylphenol	mg/kg	1	-
2-chlorophenol	mg/kg	0.5	-
2,4-dichlorophenol	mg/kg	0.5	-
2,4-dimethyl phenol	mg/kg	0.5	-
2-nitrophenol	mg/kg	0.5	-
Phenol	mg/kg	0.5	-
2,4,6-trichlorophenol	mg/kg	0.5	-
Pentachlorophenol	mg/kg	0.5	-
4-nitrophenol	mg/kg	0.5	-
Surrogates			
d5-phenol (Surrogate)	%	-	-
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403			
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	<50
TRH C29-C36	mg/kg	50	<50
Surrogates			
TRH (Surrogate)	%	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420			
Naphthalene	mg/kg	0.1	-
Acenaphthylene	mg/kg	0.1	-
Acenaphthene	mg/kg	0.1	-
Fluorene	mg/kg	0.1	-
Phenanthrene	mg/kg	0.1	-
Anthracene	mg/kg	0.1	-
Fluoranthene	mg/kg	0.1	-
Pyrene	mg/kg	0.1	-
Benzo(a)anthracene	mg/kg	0.1	-
Chrysene	mg/kg	0.1	-
Benzo(b)fluoranthene	mg/kg	0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	-
Benzo(a)pyrene	mg/kg	0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)			
Benzo(ghi)perylene	mg/kg	0.1	-
Total PAH	mg/kg	1.75	-
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320			
Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.3	**12**
Copper, Cu	mg/kg	0.5	**1.2**
Lead, Pb	mg/kg	1	**7**
Nickel, Ni	mg/kg	0.5	**1.2**
Zinc, Zn	mg/kg	0.5	**2.5**
Mercury in Soil Method: AN312			
Mercury	mg/kg	0.05	<0.05
Fibre Identification in soil Method: AN602			
FibreID			
Asbestos Detected	No unit	-	-
Moisture Content Method: AN234			
% Moisture	%	0.5	**14**
VOCs in Water Method: AN433/AN434			
Fumigants			
2,2-dichloropropane	µg/L	0.5	-
1,2-dichloropropane	µg/L	0.5	-
cis-1,3-dichloropropene	µg/L	0.5	-
trans-1,3-dichloropropene	µg/L	0.5	-
1,2-dibromoethane (EDB)	µg/L	0.5	-
Halogenated Aliphatics			
Dichlorodifluoromethane (CFC-12)	µg/L	5	-
Chloromethane	µg/L	5	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-
Bromomethane	µg/L	10	-
Chloroethane	µg/L	5	-
Trichlorofluoromethane	µg/L	1	-
Iodomethane	µg/L	5	-
1,1-dichloroethene	µg/L	0.5	-
Dichloromethane (Methylene chloride)	µg/L	5	-
Allyl chloride	µg/L	2	-
trans-1,2-dichloroethene	µg/L	0.5	-
1,1-dichloroethane	µg/L	0.5	-
cis-1,2-dichloroethene	µg/L	0.5	-
Bromochloromethane	µg/L	0.5	-
1,2-dichloroethane	µg/L	0.5	-
1,1,1-trichloroethane	µg/L	0.5	-
1,1-dichloropropene	µg/L	0.5	-
Carbon tetrachloride	µg/L	0.5	-
Dibromomethane	µg/L	0.5	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
VOCs in Water Method: AN433/AN434 (continued)			
1,1,2-trichloroethane	µg/L	0.5	-
1,3-dichloropropane	µg/L	0.5	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-
cis-1,4-dichloro-2-butene	µg/L	1	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-
1,2,3-trichloropropane	µg/L	0.5	-
trans-1,4-dichloro-2-butene	µg/L	1	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-
Hexachlorobutadiene	µg/L	0.5	-
Halogenated Aromatics			
Chlorobenzene	µg/L	0.5	-
Bromobenzene	µg/L	0.5	-
2-chlorotoluene	µg/L	0.5	-
4-chlorotoluene	µg/L	0.5	-
1,3-dichlorobenzene	µg/L	0.5	-
1,4-dichlorobenzene	µg/L	0.3	-
1,2-dichlorobenzene	µg/L	0.5	-
1,2,4-trichlorobenzene	µg/L	0.5	-
1,2,3-trichlorobenzene	µg/L	0.5	-
Monocyclic Aromatic Hydrocarbons			
Benzene	µg/L	0.5	-
Toluene	µg/L	0.5	-
Ethylbenzene	µg/L	0.5	-
m/p-xylene	µg/L	1	-
Styrene (Vinyl benzene)	µg/L	0.5	-
o-xylene	µg/L	0.5	-
Isopropylbenzene (Cumene)	µg/L	0.5	-
n-propylbenzene	µg/L	0.5	-
1,3,5-trimethylbenzene	µg/L	0.5	-
tert-butylbenzene	µg/L	0.5	-
1,2,4-trimethylbenzene	µg/L	0.5	-
sec-butylbenzene	µg/L	0.5	-
p-isopropyltoluene	µg/L	0.5	-
n-butylbenzene	µg/L	0.5	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
VOCs in Water Method: AN433/AN434 (continued)			
Nitrogenous Compounds			
Acrylonitrile	µg/L	0.5	-
Oxygenated Compounds			
Acetone (2-propanone)	µg/L	10	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	-
Vinyl acetate	µg/L	10	-
MEK (2-butanone)	µg/L	10	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-
2-hexanone (MBK)	µg/L	5	-
Polycyclic VOCs			
Naphthalene	µg/L	0.5	-
Sulphonated Compounds			
Carbon disulfide	µg/L	2	-
Surrogates			
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
Totals			
Total VOC	µg/L	10	-
Trihalomethanes			
Chloroform (THM)	µg/L	0.5	-
Bromodichloromethane (THM)	µg/L	0.5	-
Dibromochloromethane (THM)	µg/L	0.5	-
Bromoform (THM)	µg/L	0.5	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434			
TRH C6-C9	µg/L	40	-
Benzene	µg/L	0.5	-
Toluene	µg/L	0.5	-
Ethylbenzene	µg/L	0.5	-
m/p-xylene	µg/L	1	-
o-xylene	µg/L	0.5	-
Total BTEX*	µg/L	3	-
Total Xylenes*	µg/L	1.5	-
Surrogates			
Trifluorotoluene (Surrogate)	%	-	-
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403			
TRH C10-C14	µg/L	100	-
TRH C15-C28	µg/L	200	-
TRH C29-C36	µg/L	200	-

Parameter	Units	LOR	Sample Number SE100639.021 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 5.5m
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 (continued)			
Surrogates			
TRH (Surrogate)	%	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420			
Naphthalene	µg/L	0.1	-
Acenaphthylene	µg/L	0.1	-
Acenaphthene	µg/L	0.1	-
Fluorene	µg/L	0.1	-
Phenanthrene	µg/L	0.1	-
Anthracene	µg/L	0.1	-
Fluoranthene	µg/L	0.1	-
Pyrene	µg/L	0.1	-
Benzo(a)anthracene	µg/L	0.1	-
Chrysene	µg/L	0.1	-
Benzo(b)fluoranthene	µg/L	0.1	-
Benzo(k)fluoranthene	µg/L	0.1	-
Benzo(a)pyrene	µg/L	0.1	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-
Dibenzo(a&h)anthracene	µg/L	0.1	-
Benzo(ghi)perylene	µg/L	0.1	-
Total PAH (18)*	µg/L	1	-
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318			
Arsenic, As	µg/L	1	-
Cadmium, Cd	µg/L	0.1	-
Chromium, Cr	µg/L	1	-
Copper, Cu	µg/L	1	-
Lead, Pb	µg/L	1	-
Nickel, Ni	µg/L	1	-
Zinc, Zn	µg/L	1	-
Mercury (dissolved) in Water Method: AN311/AN312			
Mercury	mg/L	0.0001	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil **Method: ME-(AU)-[ENV]AN420**

PAHs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acenaphthene	LB002494	mg/kg	0.5	<0.5	NA
Acenaphthylene	LB002494	mg/kg	0.5	<0.5	NA
Anthracene	LB002494	mg/kg	0.5	<0.5	120%
Benzo(a)anthracene	LB002494	mg/kg	0.5	<0.5	NA
Benzo(b&k)fluoranthene	LB002494	mg/kg	1	<1	NA
Benzo(ghi)perylene	LB002494	mg/kg	0.5	<0.5	NA
Benzo(a)pyrene	LB002494	mg/kg	0.5	<0.5	89%
Chrysene	LB002494	mg/kg	0.5	<0.5	NA
Dibenzo(ah)anthracene	LB002494	mg/kg	0.5	<0.5	NA
Fluoranthene	LB002494	mg/kg	0.5	<0.5	111%
Fluorene	LB002494	mg/kg	0.5	<0.5	NA
Indeno(1,2,3-cd)pyrene	LB002494	mg/kg	0.5	<0.5	NA
1-methylnaphthalene	LB002494	mg/kg	0.5	<0.5	NA
2-methylnaphthalene	LB002494	mg/kg	0.5	<0.5	NA
Naphthalene	LB002494	mg/kg	0.5	<0.5	95%
Phenanthrene	LB002494	mg/kg	0.5	<0.5	111%
Pyrene	LB002494	mg/kg	0.5	<0.5	126%
2-acetylamino fluorene	LB002494	mg/kg	2	<2	NA
7,12-dimethyl-benz(a)anthracene	LB002494	mg/kg	0.5	<0.5	NA
3-methylcholanthrene	LB002494	mg/kg	1	<1	NA

OCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aldrin	LB002494	mg/kg	0.5	<0.5	73%
Alpha-BHC	LB002494	mg/kg	0.5	<0.5	NA
Beta-BHC	LB002494	mg/kg	0.5	<0.5	NA
Delta-BHC	LB002494	mg/kg	0.5	<0.5	NA
Gamma-BHC (Lindane)	LB002494	mg/kg	0.5	<0.5	NA
p,p-DDD	LB002494	mg/kg	0.5	<0.5	NA
p,p-DDE	LB002494	mg/kg	0.5	<0.5	NA
p,p-DDT	LB002494	mg/kg	0.5	<0.5	124%
Dieldrin	LB002494	mg/kg	0.5	<0.5	100%
Alpha-endosulfan	LB002494	mg/kg	0.5	<0.5	NA
Beta-endosulfan	LB002494	mg/kg	0.5	<0.5	NA
Endosulfan sulphate	LB002494	mg/kg	0.5	<0.5	NA
Endrin	LB002494	mg/kg	0.5	<0.5	91%
Heptachlor	LB002494	mg/kg	0.5	<0.5	106%
Heptachlor epoxide	LB002494	mg/kg	0.5	<0.5	NA
Isodrin	LB002494	mg/kg	0.5	<0.5	NA
Methoxychlor	LB002494	mg/kg	0.5	<0.5	NA
Mirex	LB002494	mg/kg	0.5	<0.5	NA
Alpha-chlordane	LB002494	mg/kg	0.5	<0.5	NA
Gamma-chlordane	LB002494	mg/kg	0.5	<0.5	NA
Endrin ketone	LB002494	mg/kg	0.5	<0.5	NA

OPs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Azinphos-methyl (Guthion)	LB002494	mg/kg	1	<1	NA
Bromophos ethyl	LB002494	mg/kg	1	<1	NA
Carbophenothion	LB002494	mg/kg	1	<1	NA
Chlorfenvinphos-cis (Chlofenvinphos-cis)	LB002494	mg/kg	5	<5	NA
Chlorfenvinphos-trans (Chlofenvinphos-trans)	LB002494	mg/kg	1	<1	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB002494	mg/kg	1	<1	130%
Chlorpyrifos-methyl	LB002494	mg/kg	1	<1	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

				MB	LCS %Recovery
Co-Ral (Coumaphos)	LB002494	mg/kg	1	<1	NA
Diazinon (Dimpylate)	LB002494	mg/kg	1	<1	114%
Dichlorvos	LB002494	mg/kg	1	<1	111%
Demeton-S-methyl	LB002494	mg/kg	1	<1	NA
Dimethoate	LB002494	mg/kg	1	<1	NA
Disulfoton (Di-syston)	LB002494	mg/kg	1	<1	NA
EPN*	LB002494	mg/kg	1	<1	NA
Ethion	LB002494	mg/kg	1	<1	121%
Ethoprophos (ethoprop or prophos)	LB002494	mg/kg	1	<1	NA
Famphur (Famophos)	LB002494	mg/kg	1	<1	NA
Fenamiphos (Phenamiphos)	LB002494	mg/kg	1	<1	NA
Fenchlorophos (Ronnel)	LB002494	mg/kg	1	<1	NA
Fenitrothion	LB002494	mg/kg	1	<1	NA
Fenthion	LB002494	mg/kg	1	<1	NA
Malathion (Maldison)	LB002494	mg/kg	1	<1	NA
Methidathion	LB002494	mg/kg	1	<1	NA
Mevinphos-cis/trans	LB002494	mg/kg	2	<2	NA
o,o,o-triethyl phosphorothioate	LB002494	mg/kg	1	<1	NA
Parathion ethyl (Parathion)	LB002494	mg/kg	1	<1	NA
Parathion methyl	LB002494	mg/kg	1	<1	NA
Phorate	LB002494	mg/kg	1	<1	NA
Pirimiphos-ethyl	LB002494	mg/kg	1	<1	NA
Pirimiphos-methyl	LB002494	mg/kg	1	<1	NA
Profenofos	LB002494	mg/kg	1	<1	NA
Prothiophos (Tokuthion)*	LB002494	mg/kg	1	<1	NA
Sulfotepp	LB002494	mg/kg	1	<1	NA
Tetrachlorvinphos (Stirophos)*	LB002494	mg/kg	1	<1	NA

PCB UPAC(7) Congeners

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
PCB Congener C28	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C52	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C101	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C118	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C138	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C153	LB002494	mg/kg	0.5	<0.5	NA
PCB Congener C180	LB002494	mg/kg	0.5	<0.5	NA

SVCH (Cl Benzenes, Hydrocarbons & VOCs)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Hexachlorobenzene	LB002494	mg/kg	0.5	<0.5	79%
1,2-dichlorobenzene	LB002494	mg/kg	0.5	<0.5	NA
1,3-dichlorobenzene	LB002494	mg/kg	0.5	<0.5	NA
1,4-dichlorobenzene	LB002494	mg/kg	0.5	<0.5	NA
Hexachlorobutadiene	LB002494	mg/kg	0.5	<0.5	NA
Hexachlorocyclopentadiene	LB002494	mg/kg	1	<1	NA
Hexachloroethane	LB002494	mg/kg	0.5	<0.5	NA
Hexachloroproprene	LB002494	mg/kg	0.5	<0.5	NA
Pentachlorobenzene	LB002494	mg/kg	0.5	<0.5	79%
Pentachloroethane	LB002494	mg/kg	0.5	<0.5	NA
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	LB002494	mg/kg	1	<1	NA
1,2,3,4-tetrachlorobenzene	LB002494	mg/kg	0.5	<0.5	76%
1/2-Chloronaphthalene	LB002494	mg/kg	1	<1	NA
1,2,4-trichlorobenzene	LB002494	mg/kg	0.5	<0.5	NA

Phthalates

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-ethylhexyl)phthalate	LB002494	mg/kg	5	<5	NA
Bis(2-ethylhexyl)adipate	LB002494	mg/kg	0.5	<0.5	NA
Butyl benzyl phthalate	LB002494	mg/kg	0.5	<0.5	98%
Di-n-butyl phthalate	LB002494	mg/kg	0.5	<0.5	108%
Diethyl phthalate	LB002494	mg/kg	0.5	<0.5	84%
Dimethyl phthalate	LB002494	mg/kg	0.5	<0.5	89%
Dioctyl phthalate	LB002494	mg/kg	0.5	<0.5	NA

Carbamates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbofuran	LB002494	mg/kg	0.5	<0.5	NA
Carbaryl	LB002494	mg/kg	0.5	<0.5	NA

Herbicides (normal)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluralin	LB002494	mg/kg	0.5	<0.5	NA

Nitrosamines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
N-nitroso-di-n-butylamine (NDBA)	LB002494	mg/kg	0.5	<0.5	NA
N-nitroso-diethylamine (NDEA)	LB002494	mg/kg	1	<1	NA
N-nitroso-di-n-propylamine (NDPA)	LB002494	mg/kg	0.5	<0.5	NA
N-nitroso-morpholine (NMOR)	LB002494	mg/kg	0.5	<0.5	NA
N-nitroso-piperidine (NPIP)	LB002494	mg/kg	0.5	<0.5	NA
N-nitroso-pyrrolidine (NPYR)	LB002494	mg/kg	1	<1	NA
4-amino biphenyl	LB002494	mg/kg	1	<1	NA

Nitroaromatics and Ketones

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetophenone	LB002494	mg/kg	0.5	<0.5	NA
1,3-dinitrobenzene	LB002494	mg/kg	1	<1	NA
2,4-dinitrotoluene	LB002494	mg/kg	0.5	<0.5	NA
2,6-dinitrotoluene	LB002494	mg/kg	0.5	<0.5	NA
Isophorone	LB002494	mg/kg	0.5	<0.5	NA
Nitrobenzene	LB002494	mg/kg	0.5	<0.5	NA
p-(dimethylamino) azobenzene	LB002494	mg/kg	1	<1	NA
Phenacetin	LB002494	mg/kg	1	<1	NA
Pentachloronitrobenzene (quintozene)	LB002494	mg/kg	0.5	<0.5	112%

Anilines and Amines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aniline	LB002494	mg/kg	3	<3	NA
4-chloroaniline	LB002494	mg/kg	1	<1	NA
2-nitroaniline	LB002494	mg/kg	1	<1	NA
3-nitroaniline	LB002494	mg/kg	1	<1	NA
4-nitroaniline	LB002494	mg/kg	1	<1	NA
Diphenylamine	LB002494	mg/kg	0.5	<0.5	NA
o-toluidine	LB002494	mg/kg	1	<1	NA
5-nitro-o-toluidine	LB002494	mg/kg	1	<1	NA
1-naphthylamine	LB002494	mg/kg	1	<1	NA
2-naphthylamine	LB002494	mg/kg	1	<1	NA

Haloethers

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-chloroethoxy) methane	LB002494	mg/kg	0.5	<0.5	NA
Bis(2-chloroethyl) ether	LB002494	mg/kg	0.5	<0.5	NA
Bis(2-chloroisopropyl) ether	LB002494	mg/kg	0.5	<0.5	NA
4-chlorophenyl phenyl ether	LB002494	mg/kg	0.5	<0.5	NA
4-bromophenyl phenyl ether	LB002494	mg/kg	0.5	<0.5	NA

Other SVOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Methyl methanesulfonate	LB002494	mg/kg	1	<1	NA
Ethyl methanesulfonate	LB002494	mg/kg	1	<1	NA
Dibenzofuran	LB002494	mg/kg	0.5	<0.5	NA
Benzyl alcohol	LB002494	mg/kg	1	<1	NA
Safrole	LB002494	mg/kg	0.5	<0.5	NA
Isosafrole Isomer 1	LB002494	mg/kg	1	<1	NA
Isosafrole Isomer 2	LB002494	mg/kg	1	<1	NA
1,4-naphthoquinone	LB002494	mg/kg	0.5	<0.5	NA
Thionazin	LB002494	mg/kg	1	<1	NA

Speciated Routine Phenols

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
3/4-methyl phenol (m/p-cresol)	LB002494	mg/kg	1	<1	NA
2-methyl phenol (o-cresol)	LB002494	mg/kg	0.5	<0.5	NA
2,6-dichlorophenol	LB002494	mg/kg	0.5	<0.5	NA
2,3,4,6 and 2,3,5,6-tetrachlorophenol	LB002494	mg/kg	1	<1	NA
2,4,5-trichlorophenol	LB002494	mg/kg	0.5	<0.5	NA
4-chloro-3-methylphenol	LB002494	mg/kg	1	<1	NA
2-chlorophenol	LB002494	mg/kg	0.5	<0.5	NA
2,4-dichlorophenol	LB002494	mg/kg	0.5	<0.5	125%
2,4-dimethyl phenol	LB002494	mg/kg	0.5	<0.5	NA
2-nitrophenol	LB002494	mg/kg	0.5	<0.5	NA
Phenol	LB002494	mg/kg	0.5	<0.5	110%
2,4,6-trichlorophenol	LB002494	mg/kg	0.5	<0.5	95%
Pentachlorophenol	LB002494	mg/kg	0.5	<0.5	90%
4-nitrophenol	LB002494	mg/kg	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-phenol (Surrogate)	LB002494	%	-	97%	85%
d5-nitrobenzene (Surrogate)	LB002494	%	-	80%	78%
2-fluorobiphenyl (Surrogate)	LB002494	%	-	115%	98%
2,4,6-tribromophenol (Surrogate)	LB002494	%	-	108%	94%
d14-p-terphenyl (Surrogate)	LB002494	%	-	113%	100%

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

Parameter	QC Reference	Units	LOR	MB
Mercury	LB002506	mg/L	0.0001	<0.0001

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB002605	mg/kg	0.05	<0.05	0 - 13%	113%	92%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002605	mg/kg	3	<3	0 - 14%	97%	89%
Cadmium, Cd	LB002605	mg/kg	0.3	<0.3	3 - 7%	98%	92%
Chromium, Cr	LB002605	mg/kg	0.3	<0.3	1 - 7%	100%	99%
Copper, Cu	LB002605	mg/kg	0.5	<0.5	2 - 19%	97%	81%
Lead, Pb	LB002605	mg/kg	1	<1	33%	96%	107%
Nickel, Ni	LB002605	mg/kg	0.5	<0.5	4 - 9%	98%	92%
Zinc, Zn	LB002605	mg/kg	0.5	<0.5	1 - 5%	96%	134%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB002494	mg/kg	0.1	<0.1	42%	89%	106%
Acenaphthylene	LB002494	mg/kg	0.1	<0.1	10%	96%	115%
Acenaphthene	LB002494	mg/kg	0.1	<0.1	30%	101%	106%
Fluorene	LB002494	mg/kg	0.1	<0.1	25%	NA	NA
Phenanthrene	LB002494	mg/kg	0.1	<0.1	13%	101%	106%
Anthracene	LB002494	mg/kg	0.1	<0.1	17%	98%	116%
Fluoranthene	LB002494	mg/kg	0.1	<0.1	24%	113%	113%
Pyrene	LB002494	mg/kg	0.1	<0.1	29%	113%	116%
Benzo(a)anthracene	LB002494	mg/kg	0.1	<0.1	21%	NA	NA
Chrysene	LB002494	mg/kg	0.1	<0.1	18%	NA	NA
Benzo(b)fluoranthene	LB002494	mg/kg	0.1	<0.1	23%	NA	NA
Benzo(k)fluoranthene	LB002494	mg/kg	0.1	<0.1	29%	NA	NA
Benzo(a)pyrene	LB002494	mg/kg	0.05	<0.05	27%	100%	113%
Indeno(1,2,3-cd)pyrene	LB002494	mg/kg	0.1	<0.1	27%	NA	NA
Dibenzo(a&h)anthracene	LB002494	mg/kg	0.1	<0.1	19%	NA	NA
Benzo(ghi)perylene	LB002494	mg/kg	0.1	<0.1	29%	NA	NA
Total PAH	LB002494	mg/kg	1.75	<1.8	35%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB002494	%	-	97%	0%	99%	123%
2-fluorobiphenyl (Surrogate)	LB002494	%	-	88%	2%	83%	106%
d14-p-terphenyl (Surrogate)	LB002494	%	-	95%	3%	84%	106%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB002498	µg/L	0.1	<0.1	115%
Acenaphthylene	LB002498	µg/L	0.1	<0.1	119%
Acenaphthene	LB002498	µg/L	0.1	<0.1	113%
Fluorene	LB002498	µg/L	0.1	<0.1	NA
Phenanthrene	LB002498	µg/L	0.1	<0.1	108%
Anthracene	LB002498	µg/L	0.1	<0.1	112%
Fluoranthene	LB002498	µg/L	0.1	<0.1	108%
Pyrene	LB002498	µg/L	0.1	<0.1	113%
Benzo(a)anthracene	LB002498	µg/L	0.1	<0.1	NA
Chrysene	LB002498	µg/L	0.1	<0.1	NA
Benzo(b)fluoranthene	LB002498	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB002498	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB002498	µg/L	0.1	<0.1	99%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
Indeno(1,2,3-cd)pyrene	LB002498	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB002498	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB002498	µg/L	0.1	<0.1	NA
Total PAH (18)*	LB002498	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002498	%	-	73%	83%
2-fluorobiphenyl (Surrogate)	LB002498	%	-	71%	79%
d14-p-terphenyl (Surrogate)	LB002498	%	-	70%	71%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002539	µg/L	1	<1	0%	98%	101%
Cadmium, Cd	LB002539	µg/L	0.1	<0.1	0%	105%	110%
Chromium, Cr	LB002539	µg/L	1	<1	0%	96%	98%
Copper, Cu	LB002539	µg/L	1	<1	0%	99%	103%
Lead, Pb	LB002539	µg/L	1	<1	0%	107%	110%
Nickel, Ni	LB002539	µg/L	1	<1		100%	103%
Zinc, Zn	LB002539	µg/L	1	<1	4%	101%	100%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB002494	mg/kg	20	<20	0 - 14%	108%	108%
TRH C15-C28	LB002494	mg/kg	50	<50	8 - 21%	100%	110%
TRH C29-C36	LB002494	mg/kg	50	<50	23 - 34%	90%	123%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C10-C14	LB002498	µg/L	100	<100	93%
TRH C15-C28	LB002498	µg/L	200	<200	100%
TRH C29-C36	LB002498	µg/L	200	<200	91%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Fumigants

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
2,2-dichloropropane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2-dichloropropane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
cis-1,3-dichloropropene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
trans-1,3-dichloropropene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2-dibromoethane (EDB)	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dichlorodifluoromethane (CFC-12)	LB002495	mg/kg	1	<1	0%	NA	NA
Chloromethane	LB002495	mg/kg	1	<1	0%	NA	NA
Vinyl chloride (Chloroethene)	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Bromomethane	LB002495	mg/kg	1	<1	0%	NA	NA
Chloroethane	LB002495	mg/kg	1	<1	0%	NA	NA
Trichlorofluoromethane	LB002495	mg/kg	1	<1	0%	NA	NA
Iodomethane	LB002495	mg/kg	5	<5	0%	NA	NA
1,1-dichloroethene	LB002495	mg/kg	0.1	<0.1	0%	88%	90%
Dichloromethane (Methylene chloride)	LB002495	mg/kg	0.5	<0.5	0%	NA	NA
Allyl chloride	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
trans-1,2-dichloroethene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,1-dichloroethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
cis-1,2-dichloroethene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Bromochloromethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2-dichloroethane	LB002495	mg/kg	0.1	<0.1	0%	96%	98%
1,1,1-trichloroethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,1-dichloropropene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Carbon tetrachloride	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Dibromomethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Trichloroethene (Trichloroethylene -TCE)	LB002495	mg/kg	0.1	<0.1	0%	82%	83%
1,1,2-trichloroethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,3-dichloropropane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,1,1,2-tetrachloroethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
cis-1,4-dichloro-2-butene	LB002495	mg/kg	1	<1	0%	NA	NA
1,1,2,2-tetrachloroethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2,3-trichloropropane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
trans-1,4-dichloro-2-butene	LB002495	mg/kg	1	<1	0%	NA	NA
1,2-dibromo-3-chloropropane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Hexachlorobutadiene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Chlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	111%	107%
Bromobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
2-chlorotoluene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
4-chlorotoluene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,3-dichlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,4-dichlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2-dichlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2,4-trichlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2,3-trichlorobenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Monocyclic Aromatic Hydrocarbons

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB002495	mg/kg	0.1	<0.1	0%	97%	98%
Toluene	LB002495	mg/kg	0.1	<0.1	0%	105%	104%
Ethylbenzene	LB002495	mg/kg	0.1	<0.1	0%	104%	108%
m/p-xylene	LB002495	mg/kg	0.2	<0.2	0%	99%	113%
Styrene (Vinyl benzene)	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
o-xylene	LB002495	mg/kg	0.1	<0.1	0%	101%	106%
Isopropylbenzene (Cumene)	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
n-propylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,3,5-trimethylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
tert-butylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
1,2,4-trimethylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
sec-butylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
p-isopropyltoluene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
n-butylbenzene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Acrylonitrile	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Acetone (2-propanone)	LB002495	mg/kg	10	<10	0%	NA	NA
MtBE (Methyl-tert-butyl ether)	LB002495	mg/kg	0.5	<0.5	0%	NA	NA
Vinyl acetate	LB002495	mg/kg	10	<10	0%	NA	NA
MEK (2-butanone)	LB002495	mg/kg	10	<10	0%	NA	NA
MIBK (4-methyl-2-pentanone)	LB002495	mg/kg	1	<1	0%	NA	NA
2-hexanone (MBK)	LB002495	mg/kg	5	<5	0%	NA	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Carbon disulfide	LB002495	mg/kg	0.5	<0.5	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB002495	%	-	85%	10%	98%	99%
d4-1,2-dichloroethane (Surrogate)	LB002495	%	-	102%	6%	94%	105%
d8-toluene (Surrogate)	LB002495	%	-	97%	29%	100%	102%
Bromofluorobenzene (Surrogate)	LB002495	%	-	107%	0%	105%	108%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX*	LB002495	mg/kg	-	0	NA	NA	NA
Total Xylenes*	LB002495	mg/kg	0.3	<0.3	0%	NA	NA

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Chloroform	LB002495	mg/kg	0.1	<0.1	0%	79%	83%
Bromodichloromethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
Chlorodibromomethane	LB002495	mg/kg	0.1	<0.1	0%	NA	NA
Bromoform	LB002495	mg/kg	0.1	<0.1	0%	NA	NA

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

Fumigants

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
2,2-dichloropropane	LB002526	µg/L	0.5	<0.5	NA
1,2-dichloropropane	LB002526	µg/L	0.5	<0.5	NA
cis-1,3-dichloropropene	LB002526	µg/L	0.5	<0.5	NA
trans-1,3-dichloropropene	LB002526	µg/L	0.5	<0.5	NA
1,2-dibromoethane (EDB)	LB002526	µg/L	0.5	<0.5	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dichlorodifluoromethane (CFC-12)	LB002526	µg/L	5	<5	NA
Chloromethane	LB002526	µg/L	5	<5	NA
Vinyl chloride (Chloroethene)	LB002526	µg/L	0.3	<0.3	NA
Bromomethane	LB002526	µg/L	10	<10	NA
Chloroethane	LB002526	µg/L	5	<5	NA
Trichlorofluoromethane	LB002526	µg/L	1	<1	NA
Iodomethane	LB002526	µg/L	5	<5	NA
1,1-dichloroethene	LB002526	µg/L	0.5	<0.5	109%
Dichloromethane (Methylene chloride)	LB002526	µg/L	5	<5	NA
Allyl chloride	LB002526	µg/L	2	<2	NA
trans-1,2-dichloroethene	LB002526	µg/L	0.5	<0.5	NA
1,1-dichloroethane	LB002526	µg/L	0.5	<0.5	NA
cis-1,2-dichloroethene	LB002526	µg/L	0.5	<0.5	NA
Bromochloromethane	LB002526	µg/L	0.5	<0.5	NA
1,2-dichloroethane	LB002526	µg/L	0.5	<0.5	120%
1,1,1-trichloroethane	LB002526	µg/L	0.5	<0.5	NA
1,1-dichloropropene	LB002526	µg/L	0.5	<0.5	NA
Carbon tetrachloride	LB002526	µg/L	0.5	<0.5	NA
Dibromomethane	LB002526	µg/L	0.5	<0.5	NA
Trichloroethene (Trichloroethylene,TCE)	LB002526	µg/L	0.5	<0.5	106%
1,1,2-trichloroethane	LB002526	µg/L	0.5	<0.5	NA
1,3-dichloropropane	LB002526	µg/L	0.5	<0.5	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB002526	µg/L	0.5	<0.5	NA
1,1,1,2-tetrachloroethane	LB002526	µg/L	0.5	<0.5	NA
cis-1,4-dichloro-2-butene	LB002526	µg/L	1	<1	NA
1,1,2,2-tetrachloroethane	LB002526	µg/L	0.5	<0.5	NA
1,2,3-trichloropropane	LB002526	µg/L	0.5	<0.5	NA
trans-1,4-dichloro-2-butene	LB002526	µg/L	1	<1	NA
1,2-dibromo-3-chloropropane	LB002526	µg/L	0.5	<0.5	NA
Hexachlorobutadiene	LB002526	µg/L	0.5	<0.5	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chlorobenzene	LB002526	µg/L	0.5	<0.5	112%
Bromobenzene	LB002526	µg/L	0.5	<0.5	NA
2-chlorotoluene	LB002526	µg/L	0.5	<0.5	NA
4-chlorotoluene	LB002526	µg/L	0.5	<0.5	NA
1,3-dichlorobenzene	LB002526	µg/L	0.5	<0.5	NA
1,4-dichlorobenzene	LB002526	µg/L	0.3	<0.3	NA
1,2-dichlorobenzene	LB002526	µg/L	0.5	<0.5	NA
1,2,4-trichlorobenzene	LB002526	µg/L	0.5	<0.5	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
1,2,3-trichlorobenzene	LB002526	µg/L	0.5	<0.5	NA

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene	LB002526	µg/L	0.5	<0.5	116%
Toluene	LB002526	µg/L	0.5	<0.5	120%
Ethylbenzene	LB002526	µg/L	0.5	<0.5	115%
m/p-xylene	LB002526	µg/L	1	<1	103%
Styrene (Vinyl benzene)	LB002526	µg/L	0.5	<0.5	NA
o-xylene	LB002526	µg/L	0.5	<0.5	111%
Isopropylbenzene (Cumene)	LB002526	µg/L	0.5	<0.5	NA
n-propylbenzene	LB002526	µg/L	0.5	<0.5	NA
1,3,5-trimethylbenzene	LB002526	µg/L	0.5	<0.5	NA
tert-butylbenzene	LB002526	µg/L	0.5	<0.5	NA
1,2,4-trimethylbenzene	LB002526	µg/L	0.5	<0.5	NA
sec-butylbenzene	LB002526	µg/L	0.5	<0.5	NA
p-isopropyltoluene	LB002526	µg/L	0.5	<0.5	NA
n-butylbenzene	LB002526	µg/L	0.5	<0.5	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acrylonitrile	LB002526	µg/L	0.5	<0.5	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetone (2-propanone)	LB002526	µg/L	10	<10	NA
MtBE (Methyl-tert-butyl ether)	LB002526	µg/L	2	<2	NA
Vinyl acetate	LB002526	µg/L	10	<10	NA
MEK (2-butanone)	LB002526	µg/L	10	<10	NA
MIBK (4-methyl-2-pentanone)	LB002526	µg/L	5	<5	NA
2-hexanone (MBK)	LB002526	µg/L	5	<5	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB002526	µg/L	0.5	<0.5	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbon disulfide	LB002526	µg/L	2	<2	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB002526	%	-	108%	100%
d4-1,2-dichloroethane (Surrogate)	LB002526	%	-	117%	103%
d8-toluene (Surrogate)	LB002526	%	-	101%	97%
Bromofluorobenzene (Surrogate)	LB002526	%	-	105%	118%

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chloroform (THM)	LB002526	µg/L	0.5	<0.5	95%
Bromodichloromethane (THM)	LB002526	µg/L	0.5	<0.5	NA
Dibromochloromethane (THM)	LB002526	µg/L	0.5	<0.5	NA
Bromoform (THM)	LB002526	µg/L	0.5	<0.5	NA

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB002495	mg/kg	20	<20	0%	99%	131%
Benzene	LB002495	mg/kg	0.1	<0.1		70%	
Toluene	LB002495	mg/kg	0.1	<0.1		69%	
Ethylbenzene	LB002495	mg/kg	0.1	<0.1		69%	
m/p-xylene	LB002495	mg/kg	1	<1		68%	
o-xylene	LB002495	mg/kg	0.5	<0.5		69%	
Total Xylenes	LB002495	mg/kg	0.3	<0.3		69%	
Total BTEX*	LB002495	mg/kg	2.7	<2.7		NA	

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB002495	%	-	127%	10%	67%	71%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB002526	µg/L	40	<40	123%
Benzene	LB002526	µg/L	0.5	<0.5	96%
Toluene	LB002526	µg/L	0.5	<0.5	94%
Ethylbenzene	LB002526	µg/L	0.5	<0.5	96%
m/p-xylene	LB002526	µg/L	1	<1	94%
o-xylene	LB002526	µg/L	0.5	<0.5	96%
Total BTEX*	LB002526	µg/L	3		NA
Total Xylenes*	LB002526	µg/L	1.5		NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB002526	%	-	87%	69%

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Environments Pty Ltd
Address	Level 1, 3 Rider Boulevard Rhodes NSW 2138
Telephone	02 8083 1600
Facsimile	02 8765 0762
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Additional**
Order Number	**92605-92607**
Samples	2

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100639A R0
Report Number	0000004789
Date Reported	04 Aug 2011
Date Received	07 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Ly Kim Ha
Organics Supervisor

Parameter	Units	LOR	Sample Number SE100639A.003 Sample Matrix Soil Sample Date 01 Jun 2011 Sample Name BH11 1.0m
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.6**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**25**
Volume of ExtractionSolution Used*	mL	-	**500**
pH TCLP after 18 hours	pH Units	-	**5.0**
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	**1.6**
2-methylnaphthalene	µg/L	0.1	**3.2**
1-methylnaphthalene	µg/L	0.1	**3.3**
Acenaphthylene	µg/L	0.1	**0.3**
Acenaphthene	µg/L	0.1	**9.6**
Fluorene	µg/L	0.1	**12**
Phenanthrene	µg/L	0.1	**24**
Anthracene	µg/L	0.1	**5.7**
Fluoranthene	µg/L	0.1	**3.6**
Pyrene	µg/L	0.1	**3.1**
Benzo(a)anthracene	µg/L	0.1	**0.1**
Chrysene	µg/L	0.1	<0.1
Benzo(b&k)fluoranthene	µg/L	0.2	<0.2
Benzo(b)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	**95**
2-fluorobiphenyl (Surrogate)	%	-	**100**
d14-p-terphenyl (Surrogate)	%	-	**97**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	-

Parameter	Units	LOR	Sample Number SE100639A.020 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 2.0m
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.5**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.1**

Parameter	Units	LOR	Sample Number SE100639A.020 Sample Matrix Soil Sample Date 06 Jun 2011 Sample Name BH4 2.0m
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	-
2-methylnaphthalene	µg/L	0.1	-
1-methylnaphthalene	µg/L	0.1	-
Acenaphthylene	µg/L	0.1	-
Acenaphthene	µg/L	0.1	-
Fluorene	µg/L	0.1	-
Phenanthrene	µg/L	0.1	-
Anthracene	µg/L	0.1	-
Fluoranthene	µg/L	0.1	-
Pyrene	µg/L	0.1	-
Benzo(a)anthracene	µg/L	0.1	-
Chrysene	µg/L	0.1	-
Benzo(b&k)fluoranthene	µg/L	0.2	-
Benzo(b)fluoranthene	µg/L	0.1	-
Benzo(k)fluoranthene	µg/L	0.1	-
Benzo(a)pyrene	µg/L	0.1	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-
Dibenzo(a&h)anthracene	µg/L	0.1	-
Benzo(ghi)perylene	µg/L	0.1	-
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.19**

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Metals in Soil (TCLP) by ICPOES **Method: ME-(AU)-[ENV]AN320/AN321**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lead, Pb	LB003711	mg/L	0.02	<0.020	NA

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB003697	µg/L	0.1	<0.1	81%
2-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
1-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
Acenaphthylene	LB003697	µg/L	0.1	<0.1	86%
Acenaphthene	LB003697	µg/L	0.1	<0.1	92%
Fluorene	LB003697	µg/L	0.1	<0.1	NA
Phenanthrene	LB003697	µg/L	0.1	<0.1	92%
Anthracene	LB003697	µg/L	0.1	<0.1	96%
Fluoranthene	LB003697	µg/L	0.1	<0.1	94%
Pyrene	LB003697	µg/L	0.1	<0.1	100%
Benzo(a)anthracene	LB003697	µg/L	0.1	<0.1	NA
Chrysene	LB003697	µg/L	0.1	<0.1	NA
Benzo(b&k)fluoranthene	LB003697	µg/L	0.2	<0.2	NA
Benzo(b)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB003697	µg/L	0.1	<0.1	104%
Indeno(1,2,3-cd)pyrene	LB003697	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB003697	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB003697	µg/L	0.1	<0.1	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB003697	%	-	103%	113%
2-fluorobiphenyl (Surrogate)	LB003697	%	-	103%	113%
d14-p-terphenyl (Surrogate)	LB003697	%	-	96%	112%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Environments Pty Ltd
Address	Level 1, 3 Rider Boulevard BURSWOOD NSW 2138
Telephone	02 8083 1600
Facsimile	02 8765 0762
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA**
Order Number	**92605-92607**
Samples	19

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100639 R0
Report Number	0000003289
Date Reported	17/06/2011 6:17:57PM
Date Received	07 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES

Andy Sutton
Organics Chemist

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100639.001	BH11 0.1-0.2	Soil	57g Sand	01 Jun 2011	No Asbestos Detected	
SE100639.003	BH11 1.0m	Soil	36g Sand	01 Jun 2011	No Asbestos Detected	
SE100639.006	BH3 1.0m	Soil	44g Clay,soil	02 Jun 2011	No Asbestos Detected	
SE100639.007	BH3 2.5m	Soil	57g Soil,rocks	02 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100639.011	BH2 0.6m	Soil	45g Sand	03 Jun 2011	No Asbestos Detected	
SE100639.013	BH2 1.5m	Soil	65g Soil,rocks	03 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100639.018	BH4 1.0m	Soil	73g Soil,rocks	06 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100639.019	BH4 1.5m	Soil	63g Soil,rocks	06 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100639 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST BURSWOOD NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA**
Order Number	**26331-26333**
Samples	14

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100692 R0
Report Number	0000003474
Date Reported	22/06/2011 7:50:17PM
Date Received	16 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

8270D-The Limit of Reporting (LOR) has been raised due to interferences from the sample matrix.

PAH soils - Surrogate not recovered within accepatance criteria due to sample matrix interference.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100692.001	EB1/1.0-1.1	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.002	EB1/1.4-1.5	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.003	EB1/2.0-2.1	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.005	EB2/0.5-0.6	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.007	EB3/0.5-0.6	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.008	EB3/1.0-1.1	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.009	EB3/1.6-1.7	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100692.010	EB3/2.0-2.1	Soil	Appox 170g Soil,sand,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100692 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST BURSWOOD NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA**
Order Number	**26331-26333**
Samples	14

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100692 R0
Report Number	0000003472
Date Reported	22 Jun 2011
Date Received	16 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

8270D-The Limit of Reporting (LOR) has been raised due to interferences from the sample matrix.

PAH soils - Surrogate not recovered within accepatance criteria due to sample matrix interference.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2-dichloropropane	mg/kg	0.1		-	<0.1	<0.1	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	<0.1	<0.1	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	<0.1	<0.1	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	<1	<1	-	-
Chloromethane	mg/kg	1		-	<1	<1	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	<0.1	<0.1	-	-
Bromomethane	mg/kg	1		-	<1	<1	-	-
Chloroethane	mg/kg	1		-	<1	<1	-	-
Trichlorofluoromethane	mg/kg	1		-	<1	<1	-	-
Iodomethane	mg/kg	5		-	<5	<5	-	-
1,1-dichloroethene	mg/kg	0.1		-	<0.1	<0.1	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	<0.5	<0.5	-	-
Allyl chloride	mg/kg	0.1		-	<0.1	<0.1	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,1-dichloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	<0.1	<0.1	-	-
Bromochloromethane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2-dichloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,1-dichloropropene	mg/kg	0.1		-	<0.1	<0.1	-	-
Carbon tetrachloride	mg/kg	0.1		-	<0.1	<0.1	-	-
Dibromomethane	mg/kg	0.1		-	<0.1	<0.1	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	<0.1	<0.1	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,3-dichloropropane	mg/kg	0.1		-	<0.1	<0.1	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	<0.1	<0.1	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	<1	<1	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2,3-trichloropropane	mg/kg	0.1		-	<0.1	<0.1	-	-
trans-1,4-dichloro-2-butene	mg/kg	1		-	<1	<1	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1		-	<0.1	<0.1	-	-
Hexachlorobutadiene	mg/kg	0.1		-	<0.1	<0.1	-	-
Halogenated Aromatics								
Chlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
Bromobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
2-chlorotoluene	mg/kg	0.1		-	<0.1	<0.1	-	-
4-chlorotoluene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,3-dichlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,4-dichlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2-dichlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2,4-trichlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2,3-trichlorobenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
Monocyclic Aromatic Hydrocarbons								
Benzene	mg/kg	0.1		-	<0.1	<0.1	-	-
Toluene	mg/kg	0.1		-	<0.1	<0.1	-	-
Ethylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
m/p-xylene	mg/kg	0.2		-	<0.2	<0.2	-	-
Styrene (Vinyl benzene)	mg/kg	0.1		-	<0.1	<0.1	-	-
o-xylene	mg/kg	0.1		-	<0.1	<0.1	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1		-	<0.1	<0.1	-	-
n-propylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
VOC's in Soil Method: AN433/AN434 (continued)								
1,3,5-trimethylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
tert-butylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
1,2,4-trimethylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
sec-butylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
p-isopropyltoluene	mg/kg	0.1		-	<0.1	<0.1	-	-
n-butylbenzene	mg/kg	0.1		-	<0.1	<0.1	-	-
Nitrogenous Compounds								
Acrylonitrile	mg/kg	0.1		-	<0.1	<0.1	-	-
Oxygenated Compounds								
Acetone (2-propanone)	mg/kg	10		-	<10	<10	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5		-	<0.5	<0.5	-	-
Vinyl acetate	mg/kg	10		-	<10	<10	-	-
MEK (2-butanone)	mg/kg	10		-	<10	<10	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1		-	<1	<1	-	-
2-hexanone (MBK)	mg/kg	5		-	<5	<5	-	-
Polycyclic VOCs								
Naphthalene	mg/kg	0.1		-	**3.7**	**0.4**	-	-
Sulphonated Compounds								
Carbon disulfide	mg/kg	0.5		-	<0.5	<0.5	-	-
Surrogates								
Dibromofluoromethane (Surrogate)	%	-		-	**89**	**91**	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	**100**	**101**	-	-
d8-toluene (Surrogate)	%	-		-	**102**	**103**	-	-
Bromofluorobenzene (Surrogate)	%	-		-	**83**	**85**	-	-
Totals								
Total Xylenes*	mg/kg	0.3		-	<0.3	<0.3	-	-
Total BTEX*	mg/kg	-		-	**0**	**0**	-	-
Total VOC*	mg/kg	24		-	-	-	-	-
Trihalomethanes								
Chloroform	mg/kg	0.1		-	<0.1	<0.1	-	-
Bromodichloromethane	mg/kg	0.1		-	<0.1	<0.1	-	-
Chlorodibromomethane	mg/kg	0.1		-	<0.1	<0.1	-	-
Bromoform	mg/kg	0.1		-	<0.1	<0.1	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434								
TRH C6-C9	mg/kg	20		-	<20	<20	<20	<20
Benzene	mg/kg	0.1		-	-	-	<0.1	<0.1
Toluene	mg/kg	0.1		-	-	-	<0.1	<0.1
Ethylbenzene	mg/kg	0.1		-	-	-	<0.1	<0.1
m/p-xylene	mg/kg	1		-	-	-	<1	<1
o-xylene	mg/kg	0.5		-	-	-	<0.5	<0.5
Total Xylenes	mg/kg	0.3		-	-	-	<0.3	<0.3
Total BTEX*	mg/kg	2.7		-	-	-	<2.7	<2.7

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)								
Surrogates								
Trifluorotoluene (Surrogate)	%	-		-	**98**	**119**	**127**	**117**
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403								
TRH C10-C14	mg/kg	20		-	**130**	<20	<20	<20
TRH C15-C28	mg/kg	50		-	**4300**	**290**	**310**	**170**
TRH C29-C36	mg/kg	50		-	**1900**	**150**	**140**	**130**
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420								
Naphthalene	mg/kg	0.1		-	**9.8**	**0.6**	**0.6**	**0.3**
Acenaphthylene	mg/kg	0.1		-	**1.1**	<0.1	<0.1	**0.4**
Acenaphthene	mg/kg	0.1		-	**35**	**1.6**	**2.4**	**0.2**
Fluorene	mg/kg	0.1		-	**50**	**2.2**	<0.1	**0.4**
Phenanthrene	mg/kg	0.1		-	**370**	**15**	<0.1	**3.2**
Anthracene	mg/kg	0.1		-	**69**	**3.2**	<0.1	**1.0**
Fluoranthene	mg/kg	0.1		-	**220**	**13**	<0.1	**5.2**
Pyrene	mg/kg	0.1		-	**220**	**12**	<0.1	**5.4**
Benzo(a)anthracene	mg/kg	0.1		-	**160**	**8.7**	<0.1	**4.0**
Chrysene	mg/kg	0.1		-	**98**	**4.5**	<0.1	**1.9**
Benzo(b)fluoranthene	mg/kg	0.1		-	**110**	**6.6**	<0.1	**4.3**
Benzo(k)fluoranthene	mg/kg	0.1		-	**34**	**1.3**	<0.1	**1.2**
Benzo(a)pyrene	mg/kg	0.05		-	**74**	**4.3**	<0.05	**3.2**
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		-	**32**	**2.2**	<0.1	**1.9**
Dibenzo(a&h)anthracene	mg/kg	0.1		-	**12**	**0.8**	<0.1	**0.5**
Benzo(ghi)perylene	mg/kg	0.1		-	**38**	**2.3**	<0.1	**1.9**
Total PAH	mg/kg	1.75		-	**1400**	**70**	**3.0**	**35**
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	**160**	**121**	**0**	**126**
2-fluorobiphenyl (Surrogate)	%	-		-	**168**	**112**	**0**	**116**
d14-p-terphenyl (Surrogate)	%	-		-	**249**	**122**	**0**	**123**
Full 8270 SVOC in Soil Method: AN420								
PAHs								
Acenaphthene	mg/kg	0.5		-	**54**	**4.2**	-	-
Acenaphthylene	mg/kg	0.5		-	**1.0**	<0.5	-	-
Anthracene	mg/kg	0.5		-	**110**	**8.8**	-	-
Benzo(a)anthracene	mg/kg	0.5		-	**260**	**14**	-	-
Benzo(b&k)fluoranthene	mg/kg	1		-	**340**	**18**	-	-
Benzo(b)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5		-	**62**	**7.2**	-	-
Benzo(a)pyrene	mg/kg	0.5		-	**200**	**11**	-	-
Chrysene	mg/kg	0.5		-	**300**	**16**	-	-
Dibenzo(ah)anthracene	mg/kg	0.5		-	**19**	**1.6**	-	-
Fluoranthene	mg/kg	0.5		-	**570**	**30**	-	-
Fluorene	mg/kg	0.5		-	**68**	**5.5**	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5		-	**60**	**5.9**	-	-
1-methylnaphthalene	mg/kg	0.5		-	**25**	**2.0**	-	-
2-methylnaphthalene	mg/kg	0.5		-	**26**	**2.1**	-	-
Naphthalene	mg/kg	0.5		-	**15**	**1.8**	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Full 8270 SVOC in Soil Method: AN420 (continued)								
Phenanthrene	mg/kg	0.5		-	**580**	**31**	-	-
Pyrene	mg/kg	0.5		-	**540**	**29**	-	-
2-acetylamino fluorene	mg/kg	2		-	<2	<2	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5		-	<0.5	<0.5	-	-
3-methylcholanthrene	mg/kg	1		-	<1	<1	-	-
OCs								
Aldrin	mg/kg	0.5		-	<0.5	<0.5	-	-
Alpha-BHC	mg/kg	0.5		-	<0.5	<0.5	-	-
Beta-BHC	mg/kg	0.5		-	<0.5	<0.5	-	-
Delta-BHC	mg/kg	0.5		-	<0.5	<0.5	-	-
Gamma-BHC (Lindane)	mg/kg	0.5		-	<0.5	<0.5	-	-
p,p-DDD	mg/kg	0.5		-	<0.5	<0.5	-	-
p,p-DDE	mg/kg	0.5		-	<0.5	<0.5	-	-
p,p-DDT	mg/kg	0.5		-	<0.5	<0.5	-	-
Dieldrin	mg/kg	0.5		-	<0.5	<0.5	-	-
Alpha-endosulfan	mg/kg	0.5		-	<0.5	<0.5	-	-
Beta-endosulfan	mg/kg	0.5		-	<0.5	<0.5	-	-
Endosulfan sulphate	mg/kg	0.5		-	<0.5	<0.5	-	-
Endrin	mg/kg	0.5		-	<0.5	<0.5	-	-
Heptachlor	mg/kg	0.5		-	<0.5	<0.5	-	-
Heptachlor epoxide	mg/kg	0.5		-	<0.5	<0.5	-	-
Isodrin	mg/kg	0.5		-	<0.5	<0.5	-	-
Methoxychlor	mg/kg	0.5		-	<0.5	<0.5	-	-
Mirex	mg/kg	0.5		-	<0.5	<0.5	-	-
Alpha-chlordane	mg/kg	0.5		-	<0.5	<0.5	-	-
Gamma-chlordane	mg/kg	0.5		-	<0.5	<0.5	-	-
Endrin ketone	mg/kg	0.5		-	<0.5	<0.5	-	-
OPs								
Azinphos-methyl (Guthion)	mg/kg	1		-	<1	<1	-	-
Bromophos ethyl	mg/kg	1		-	<1	<1	-	-
Carbophenothion	mg/kg	1		-	<1	<1	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5		-	<5	<5	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1		-	<1	<1	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1		-	<1	<1	-	-
Chlorpyrifos-methyl	mg/kg	1		-	<1	<1	-	-
Co-Ral (Coumaphos)	mg/kg	1		-	<1	<1	-	-
Diazinon (Dimpylate)	mg/kg	1		-	<1	<1	-	-
Dichlorvos	mg/kg	1		-	<1	<1	-	-
Demeton-S-methyl	mg/kg	1		-	<1	<1	-	-
Dimethoate	mg/kg	1		-	<1	<1	-	-
Disulfoton (Di-syston)	mg/kg	1		-	<1	<1	-	-
EPN*	mg/kg	1		-	<1	<1	-	-
Ethion	mg/kg	1		-	<1	<1	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1		-	<1	<1	-	-
Famphur (Famophos)	mg/kg	1		-	<1	<1	-	-
Fenamiphos (Phenamiphos)	mg/kg	1		-	<1	<1	-	-
Fenchlorophos (Ronnel)	mg/kg	1		-	<1	<1	-	-
Fenitrothion	mg/kg	1		-	<1	<1	-	-
Fenthion	mg/kg	1		-	<1	<1	-	-
Malathion (Maldison)	mg/kg	1		-	<1	<1	-	-
Methidathion	mg/kg	1		-	<1	<1	-	-
Mevinphos-cis/trans	mg/kg	2		-	<2	<2	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1		-	<1	<1	-	-
Parathion ethyl (Parathion)	mg/kg	1		-	<1	<1	-	-
Parathion methyl	mg/kg	1		-	<1	<1	-	-
Phorate	mg/kg	1		-	<1	<1	-	-
Pirimiphos-ethyl	mg/kg	1		-	<1	<1	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Full 8270 SVOC in Soil Method: AN420 (continued)								
Pirimiphos-methyl	mg/kg	1		-	<1	<1	-	-
Profenofos	mg/kg	1		-	<1	<1	-	-
Prothiophos (Tokuthion)*	mg/kg	1		-	<1	<1	-	-
Sulfotepp	mg/kg	1		-	<1	<1	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1		-	<1	<1	-	-
PCB UPAC(7) Congeners								
PCB Congener C28	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C52	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C101	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C118	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C138	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C153	mg/kg	0.5		-	<0.5	<0.5	-	-
PCB Congener C180	mg/kg	0.5		-	<0.5	<0.5	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)								
Hexachlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
1,2-dichlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
1,3-dichlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
1,4-dichlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
Hexachlorobutadiene	mg/kg	0.5		-	<0.5	<0.5	-	-
Hexachlorocyclopentadiene	mg/kg	1		-	<1	<1	-	-
Hexachloroethane	mg/kg	0.5		-	<0.5	<0.5	-	-
Hexachloroproprene	mg/kg	0.5		-	<0.5	<0.5	-	-
Pentachlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
Pentachloroethane	mg/kg	0.5		-	<0.5	<0.5	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1		-	<1	<1	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
1/2-Chloronaphthalene	mg/kg	1		-	<1	<1	-	-
1,2,4-trichlorobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Full 8270 SVOC in Soil Method: AN420 (continued)								
Phthalates								
Bis(2-ethylhexyl)phthalate	mg/kg	5		-	<5	<5	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5		-	<0.5	<0.5	-	-
Butyl benzyl phthalate	mg/kg	0.5		-	<0.5	<0.5	-	-
Di-n-butyl phthalate	mg/kg	0.5		-	<0.5	<0.5	-	-
Diethyl phthalate	mg/kg	0.5		-	<0.5	<0.5	-	-
Dimethyl phthalate	mg/kg	0.5		-	<0.5	<0.5	-	-
Dioctyl phthalate	mg/kg	0.5		-	<0.5	<0.5	-	-
Carbamates								
Carbofuran	mg/kg	0.5		-	<0.5	<0.5	-	-
Carbaryl	mg/kg	0.5		-	<0.5	<0.5	-	-
Herbicides (normal)								
Trifluralin	mg/kg	0.5		-	<0.5	<0.5	-	-
Nitrosamines								
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5		-	<0.5	<0.5	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1		-	<1	<1	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5		-	<0.5	<0.5	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5		-	<0.5	<0.5	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5		-	<0.5	<0.5	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1		-	<1	<1	-	-
4-amino biphenyl	mg/kg	1		-	<1	<1	-	-
Nitroaromatics and Ketones								
Acetophenone	mg/kg	0.5		-	<0.5	<0.5	-	-
1,3-dinitrobenzene	mg/kg	1		-	<1	<1	-	-
2,4-dinitrotoluene	mg/kg	0.5		-	<0.5	<0.5	-	-
2,6-dinitrotoluene	mg/kg	0.5		-	<0.5	<0.5	-	-
Isophorone	mg/kg	0.5		-	<0.5	<0.5	-	-
Nitrobenzene	mg/kg	0.5		-	<0.5	<0.5	-	-
p-(dimethylamino) azobenzene	mg/kg	1		-	<1	<1	-	-
Phenacetin	mg/kg	1		-	<1	<1	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5		-	<0.5	<0.5	-	-
Anilines and Amines								
Aniline	mg/kg	3		-	<3	<3	-	-
4-chloroaniline	mg/kg	1		-	<1	<1	-	-
2-nitroaniline	mg/kg	1		-	<1	<1	-	-
3-nitroaniline	mg/kg	1		-	<1	<1	-	-
4-nitroaniline	mg/kg	1		-	<1	<1	-	-
Diphenylamine	mg/kg	0.5		-	<0.5	<0.5	-	-
o-toluidine	mg/kg	1		-	<1	<1	-	-
5-nitro-o-toluidine	mg/kg	1		-	<1	<1	-	-
1-naphthylamine	mg/kg	1		-	<1	<1	-	-
2-naphthylamine	mg/kg	1		-	<1	<1	-	-
Haloethers								
Bis(2-chloroethoxy) methane	mg/kg	0.5		-	<0.5	<0.5	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5		-	<0.5	<0.5	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5		-	<0.5	<0.5	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5		-	<0.5	<0.5	-	-
4-bromophenyl phenyl ether	mg/kg	0.5		-	<0.5	<0.5	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Full 8270 SVOC in Soil Method: AN420 (continued)								
Other SVOCs								
Methyl methanesulfonate	mg/kg	1	-	<1	<1	-	-	
Ethyl methanesulfonate	mg/kg	1	-	<1	<1	-	-	
Dibenzofuran	mg/kg	0.5	-	**31**	**2.5**	-	-	
Benzyl alcohol	mg/kg	1	-	<1	<1	-	-	
Safrole	mg/kg	0.5	-	<0.5	<0.5	-	-	
Isosafrole Isomer 1	mg/kg	1	-	<1	<1	-	-	
Isosafrole Isomer 2	mg/kg	1	-	<1	<1	-	-	
1,4-naphthoquinone	mg/kg	0.5	-	<0.5	<0.5	-	-	
Thionazin	mg/kg	1	-	<1	<1	-	-	
Speciated Routine Phenols								
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	<2↑	<1	-	-	
2-methyl phenol (o-cresol)	mg/kg	0.5	-	<0.5	<0.5	-	-	
2,6-dichlorophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	<1	<1	-	-	
2,4,5-trichlorophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
4-chloro-3-methylphenol	mg/kg	1	-	<1	<1	-	-	
2-chlorophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
2,4-dichlorophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
2,4-dimethyl phenol	mg/kg	0.5	-	<0.8↑	<0.5	-	-	
2-nitrophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
Phenol	mg/kg	0.5	-	<0.6↑	<0.5	-	-	
2,4,6-trichlorophenol	mg/kg	0.5	-	**1.0**	<0.5	-	-	
Pentachlorophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
4-nitrophenol	mg/kg	0.5	-	<0.5	<0.5	-	-	
Surrogates								
d5-phenol (Surrogate)	%	-	-	**103**	**110**	-	-	
d5-nitrobenzene (Surrogate)	%	-	-	**94**	**103**	-	-	
2-fluorobiphenyl (Surrogate)	%	-	-	**94**	**102**	-	-	
2,4,6-tribromophenol (Surrogate)	%	-	-	**94**	**118**	-	-	
d14-p-terphenyl (Surrogate)	%	-	-	**114**	**104**	-	-	
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3	-	**13**	**6**	**8**	**9**	
Cadmium, Cd	mg/kg	0.3	-	**0.5**	<0.3	<0.3	**0.3**	
Chromium, Cr	mg/kg	0.3	-	**29**	**15**	**13**	**9.7**	
Copper, Cu	mg/kg	0.5	-	**98**	**30**	**15**	**320**	
Lead, Pb	mg/kg	1	-	**540**	**75**	**31**	**190**	
Nickel, Ni	mg/kg	0.5	-	**26**	**6.5**	**1.9**	**13**	
Zinc, Zn	mg/kg	0.5	-	**460**	**89**	**22**	**270**	
Mercury in Soil Method: AN312								
Mercury	mg/kg	0.05	-	**1.2**	**0.22**	**0.05**	**0.64**	
Fibre Identification in soil Method: AN602								
FibreID								
Asbestos Detected	No unit	-	No	No	No	-	No	

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.001 Soil 10 Jun 2011 EB1/1.0-1.1	SE100692.002 Soil 10 Jun 2011 EB1/1.4-1.5	SE100692.003 Soil 10 Jun 2011 EB1/2.0-2.1	SE100692.004 Soil 10 Jun 2011 EB1/3.0-3.1	SE100692.005 Soil 10 Jun 2011 EB2/0.5-0.6
Moisture Content Method: AN234								
% Moisture	%	0.5		-	**20**	**17**	**18**	**13**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434								
TRH C6-C9	mg/L	0.04		-	-	-	-	-
Benzene	µg/L	0.5		-	-	-	-	-
Toluene	µg/L	0.5		-	-	-	-	-
Ethylbenzene	µg/L	0.5		-	-	-	-	-
m/p-xylene	µg/L	1		-	-	-	-	-
o-xylene	µg/L	0.5		-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2		-	-	-	-	-
Total BTEX*	µg/L	3		-	-	-	-	-
Total Xylenes*	µg/L	1.5		-	-	-	-	-
Surrogates								
Trifluorotoluene (Surrogate)	%	-		-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	-	-	-	-
Chloromethane	mg/kg	1		-	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	-	-	-	-
Bromomethane	mg/kg	1		-	-	-	-	-
Chloroethane	mg/kg	1		-	-	-	-	-
Trichlorofluoromethane	mg/kg	1		-	-	-	-	-
Iodomethane	mg/kg	5		-	-	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	-	-	-	-
Allyl chloride	mg/kg	0.1		-	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
Bromochloromethane	mg/kg	0.1		-	-	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	-	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	-	-	-	-
Dibromomethane	mg/kg	0.1		-	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
VOC's in Soil Method: AN433/AN434 (continued)							
1,1,1,2-tetrachloroethane	mg/kg	0.1	-	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	-	-	-	-	-
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	-	-	-	-	-
Bromobenzene	mg/kg	0.1	-	-	-	-	-
2-chlorotoluene	mg/kg	0.1	-	-	-	-	-
4-chlorotoluene	mg/kg	0.1	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	-	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	-	-
n-propylbenzene	mg/kg	0.1	-	-	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
VOC's in Soil Method: AN433/AN434 (continued)								
Nitrogenous Compounds								
Acrylonitrile	mg/kg	0.1		-	-	-	-	-
Oxygenated Compounds								
Acetone (2-propanone)	mg/kg	10		-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5		-	-	-	-	-
Vinyl acetate	mg/kg	10		-	-	-	-	-
MEK (2-butanone)	mg/kg	10		-	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1		-	-	-	-	-
2-hexanone (MBK)	mg/kg	5		-	-	-	-	-
Polycyclic VOCs								
Naphthalene	mg/kg	0.1		-	-	-	-	-
Sulphonated Compounds								
Carbon disulfide	mg/kg	0.5		-	-	-	-	-
Surrogates								
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
Totals								
Total Xylenes*	mg/kg	0.3		-	-	-	-	-
Total BTEX*	mg/kg	-		-	-	-	-	-
Total VOC*	mg/kg	24		-	-	-	-	-
Trihalomethanes								
Chloroform	mg/kg	0.1		-	-	-	-	-
Bromodichloromethane	mg/kg	0.1		-	-	-	-	-
Chlorodibromomethane	mg/kg	0.1		-	-	-	-	-
Bromoform	mg/kg	0.1		-	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434								
TRH C6-C9	mg/kg	20		<20	-	<20	<20	<20
Benzene	mg/kg	0.1		<0.1	-	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1		<0.1	-	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1		<0.1	-	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	1		<1	-	<1	<1	<1
o-xylene	mg/kg	0.5		<0.5	-	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	0.3		<0.3	-	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	2.7		<2.7	-	<2.7	<2.7	<2.7
Surrogates								
Trifluorotoluene (Surrogate)	%	-		**126**	-	**123**	**120**	**109**
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403								
TRH C10-C14	mg/kg	20		<20	-	<20	<20	<20
TRH C15-C28	mg/kg	50		<50	-	**320**	<50	<50
TRH C29-C36	mg/kg	50		<50	-	**190**	<50	<50
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420								
Naphthalene	mg/kg	0.1		<0.1	-	**0.7**	<0.1	<0.1
Acenaphthylene	mg/kg	0.1		<0.1	-	**1.5**	<0.1	<0.1
Acenaphthene	mg/kg	0.1		<0.1	-	**0.4**	<0.1	<0.1
Fluorene	mg/kg	0.1		**0.1**	-	**1.5**	<0.1	<0.1
Phenanthrene	mg/kg	0.1		**0.6**	-	**7.9**	**0.3**	**0.6**
Anthracene	mg/kg	0.1		**0.3**	-	**2.3**	<0.1	**0.2**
Fluoranthene	mg/kg	0.1		**0.8**	-	**9.1**	**0.4**	**0.7**
Pyrene	mg/kg	0.1		**0.8**	-	**8.8**	**0.3**	**0.7**
Benzo(a)anthracene	mg/kg	0.1		**0.4**	-	**6.4**	**0.3**	**0.4**
Chrysene	mg/kg	0.1		**0.3**	-	**3.2**	**0.1**	**0.2**
Benzo(b)fluoranthene	mg/kg	0.1		**0.4**	-	**5.5**	**0.2**	**0.4**
Benzo(k)fluoranthene	mg/kg	0.1		**0.1**	-	**1.5**	<0.1	**0.1**
Benzo(a)pyrene	mg/kg	0.05		**0.35**	-	**3.9**	**0.15**	**0.25**
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		**0.2**	-	**2.2**	<0.1	**0.1**
Dibenzo(a&h)anthracene	mg/kg	0.1		<0.1	-	**0.6**	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1		**0.2**	-	**2.1**	<0.1	**0.2**
Total PAH	mg/kg	1.75		**4.7**	-	**58**	<1.8↑	**3.8**
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		**123**	-	**115**	**121**	**114**
2-fluorobiphenyl (Surrogate)	%	-		**106**	-	**117**	**106**	**100**
d14-p-terphenyl (Surrogate)	%	-		**118**	-	**126**	**120**	**119**
Full 8270 SVOC in Soil Method: AN420								
PAHs								
Acenaphthene	mg/kg	0.5		-	-	-	-	-
Acenaphthylene	mg/kg	0.5		-	-	-	-	-
Anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1		-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5		-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5		-	-	-	-	-
Chrysene	mg/kg	0.5		-	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5		-	-	-	-	-
Fluoranthene	mg/kg	0.5		-	-	-	-	-
Fluorene	mg/kg	0.5		-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5		-	-	-	-	-
1-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
2-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
Naphthalene	mg/kg	0.5		-	-	-	-	-
Phenanthrene	mg/kg	0.5		-	-	-	-	-
Pyrene	mg/kg	0.5		-	-	-	-	-
2-acetylamino fluorene	mg/kg	2		-	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5		-	-	-	-	-
3-methylcholanthrene	mg/kg	1		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
Full 8270 SVOC in Soil Method: AN420 (continued)								
OCs								
Aldrin	mg/kg	0.5		-	-	-	-	-
Alpha-BHC	mg/kg	0.5		-	-	-	-	-
Beta-BHC	mg/kg	0.5		-	-	-	-	-
Delta-BHC	mg/kg	0.5		-	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5		-	-	-	-	-
p,p-DDD	mg/kg	0.5		-	-	-	-	-
p,p-DDE	mg/kg	0.5		-	-	-	-	-
p,p-DDT	mg/kg	0.5		-	-	-	-	-
Dieldrin	mg/kg	0.5		-	-	-	-	-
Alpha-endosulfan	mg/kg	0.5		-	-	-	-	-
Beta-endosulfan	mg/kg	0.5		-	-	-	-	-
Endosulfan sulphate	mg/kg	0.5		-	-	-	-	-
Endrin	mg/kg	0.5		-	-	-	-	-
Heptachlor	mg/kg	0.5		-	-	-	-	-
Heptachlor epoxide	mg/kg	0.5		-	-	-	-	-
Isodrin	mg/kg	0.5		-	-	-	-	-
Methoxychlor	mg/kg	0.5		-	-	-	-	-
Mirex	mg/kg	0.5		-	-	-	-	-
Alpha-chlordane	mg/kg	0.5		-	-	-	-	-
Gamma-chlordane	mg/kg	0.5		-	-	-	-	-
Endrin ketone	mg/kg	0.5		-	-	-	-	-
OPs								
Azinphos-methyl (Guthion)	mg/kg	1		-	-	-	-	-
Bromophos ethyl	mg/kg	1		-	-	-	-	-
Carbophenothion	mg/kg	1		-	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5		-	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1		-	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1		-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1		-	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1		-	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1		-	-	-	-	-
Dichlorvos	mg/kg	1		-	-	-	-	-
Demeton-S-methyl	mg/kg	1		-	-	-	-	-
Dimethoate	mg/kg	1		-	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1		-	-	-	-	-
EPN*	mg/kg	1		-	-	-	-	-
Ethion	mg/kg	1		-	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1		-	-	-	-	-
Famphur (Famophos)	mg/kg	1		-	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1		-	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1		-	-	-	-	-
Fenitrothion	mg/kg	1		-	-	-	-	-
Fenthion	mg/kg	1		-	-	-	-	-
Malathion (Maldison)	mg/kg	1		-	-	-	-	-
Methidathion	mg/kg	1		-	-	-	-	-
Mevinphos-cis/trans	mg/kg	2		-	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1		-	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1		-	-	-	-	-
Parathion methyl	mg/kg	1		-	-	-	-	-
Phorate	mg/kg	1		-	-	-	-	-
Pirimiphos-ethyl	mg/kg	1		-	-	-	-	-
Pirimiphos-methyl	mg/kg	1		-	-	-	-	-
Profenofos	mg/kg	1		-	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1		-	-	-	-	-
Sulfotepp	mg/kg	1		-	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
Full 8270 SVOC in Soil **Method: AN420 (continued)**								
PCB UPAC(7) Congeners								
PCB Congener C28	mg/kg	0.5		-	-	-	-	-
PCB Congener C52	mg/kg	0.5		-	-	-	-	-
PCB Congener C101	mg/kg	0.5		-	-	-	-	-
PCB Congener C118	mg/kg	0.5		-	-	-	-	-
PCB Congener C138	mg/kg	0.5		-	-	-	-	-
PCB Congener C153	mg/kg	0.5		-	-	-	-	-
PCB Congener C180	mg/kg	0.5		-	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)								
Hexachlorobenzene	mg/kg	0.5		-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5		-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5		-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5		-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5		-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1		-	-	-	-	-
Hexachloroethane	mg/kg	0.5		-	-	-	-	-
Hexachloroproprene	mg/kg	0.5		-	-	-	-	-
Pentachlorobenzene	mg/kg	0.5		-	-	-	-	-
Pentachloroethane	mg/kg	0.5		-	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1		-	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5		-	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1		-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5		-	-	-	-	-
Phthalates								
Bis(2-ethylhexyl)phthalate	mg/kg	5		-	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5		-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5		-	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5		-	-	-	-	-
Diethyl phthalate	mg/kg	0.5		-	-	-	-	-
Dimethyl phthalate	mg/kg	0.5		-	-	-	-	-
Dioctyl phthalate	mg/kg	0.5		-	-	-	-	-
Carbamates								
Carbofuran	mg/kg	0.5		-	-	-	-	-
Carbaryl	mg/kg	0.5		-	-	-	-	-
Herbicides (normal)								
Trifluralin	mg/kg	0.5		-	-	-	-	-
Nitrosamines								
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5		-	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1		-	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5		-	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5		-	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5		-	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1		-	-	-	-	-
4-amino biphenyl	mg/kg	1		-	-	-	-	-
Nitroaromatics and Ketones								
Acetophenone	mg/kg	0.5		-	-	-	-	-
1,3-dinitrobenzene	mg/kg	1		-	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5		-	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5		-	-	-	-	-
Isophorone	mg/kg	0.5		-	-	-	-	-
Nitrobenzene	mg/kg	0.5		-	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100692.006 Soil 10 Jun 2011 EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
Full 8270 SVOC in Soil Method: AN420 (continued)								
Phenacetin	mg/kg	1		-	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5		-	-	-	-	-
Anilines and Amines								
Aniline	mg/kg	3		-	-	-	-	-
4-chloroaniline	mg/kg	1		-	-	-	-	-
2-nitroaniline	mg/kg	1		-	-	-	-	-
3-nitroaniline	mg/kg	1		-	-	-	-	-
4-nitroaniline	mg/kg	1		-	-	-	-	-
Diphenylamine	mg/kg	0.5		-	-	-	-	-
o-toluidine	mg/kg	1		-	-	-	-	-
5-nitro-o-toluidine	mg/kg	1		-	-	-	-	-
1-naphthylamine	mg/kg	1		-	-	-	-	-
2-naphthylamine	mg/kg	1		-	-	-	-	-
Haloethers								
Bis(2-chloroethoxy) methane	mg/kg	0.5		-	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5		-	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5		-	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5		-	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5		-	-	-	-	-
Other SVOCs								
Methyl methanesulfonate	mg/kg	1		-	-	-	-	-
Ethyl methanesulfonate	mg/kg	1		-	-	-	-	-
Dibenzofuran	mg/kg	0.5		-	-	-	-	-
Benzyl alcohol	mg/kg	1		-	-	-	-	-
Safrole	mg/kg	0.5		-	-	-	-	-
Isosafrole Isomer 1	mg/kg	1		-	-	-	-	-
Isosafrole Isomer 2	mg/kg	1		-	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5		-	-	-	-	-
Thionazin	mg/kg	1		-	-	-	-	-
Speciated Routine Phenols								
3/4-methyl phenol (m/p-cresol)	mg/kg	1		-	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5		-	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5		-	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1		-	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5		-	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1		-	-	-	-	-
2-chlorophenol	mg/kg	0.5		-	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5		-	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5		-	-	-	-	-
2-nitrophenol	mg/kg	0.5		-	-	-	-	-
Phenol	mg/kg	0.5		-	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5		-	-	-	-	-
Pentachlorophenol	mg/kg	0.5		-	-	-	-	-
4-nitrophenol	mg/kg	0.5		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100692.006 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: EB2/2.0-2.1	SE100692.007 Soil 10 Jun 2011 EB3/0.5-0.6	SE100692.008 Soil 10 Jun 2011 EB3/1.0-1.1	SE100692.009 Soil 10 Jun 2011 EB3/1.6-1.7	SE100692.010 Soil 10 Jun 2011 EB3/2.0-2.1
Full 8270 SVOC in Soil Method: AN420 (continued)							
Surrogates							
d5-phenol (Surrogate)	%	-	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	**7**	-	**13**	**6**	**5**
Cadmium, Cd	mg/kg	0.3	<0.3	-	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.3	**13**	-	**18**	**9.5**	**15**
Copper, Cu	mg/kg	0.5	**18**	-	**110**	**7.3**	**12**
Lead, Pb	mg/kg	1	**32**	-	**310**	**23**	**31**
Nickel, Ni	mg/kg	0.5	**3.5**	-	**11**	**1.3**	**4.6**
Zinc, Zn	mg/kg	0.5	**32**	-	**190**	**12**	**17**
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	**1.0**	-	**0.68**	<0.05	**0.07**
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	No	No	No	No
Moisture Content Method: AN234							
% Moisture	%	0.5	**17**	-	**10**	**15**	**9.1**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
VOC's in Soil Method: AN433/AN434						
Fumigants						
2,2-dichloropropane	mg/kg	0.1	-	-	-	-
1,2-dichloropropane	mg/kg	0.1	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1	-	-	-	-
Halogenated Aliphatics						
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-	-	-	-
Chloromethane	mg/kg	1	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-	-	-	-
Bromomethane	mg/kg	1	-	-	-	-
Chloroethane	mg/kg	1	-	-	-	-
Trichlorofluoromethane	mg/kg	1	-	-	-	-
Iodomethane	mg/kg	5	-	-	-	-
1,1-dichloroethene	mg/kg	0.1	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-	-	-	-
Allyl chloride	mg/kg	0.1	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1	-	-	-	-
1,1-dichloroethane	mg/kg	0.1	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1	-	-	-	-
Bromochloromethane	mg/kg	0.1	-	-	-	-
1,2-dichloroethane	mg/kg	0.1	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1	-	-	-	-
1,1-dichloropropene	mg/kg	0.1	-	-	-	-
Carbon tetrachloride	mg/kg	0.1	-	-	-	-
Dibromomethane	mg/kg	0.1	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1	-	-	-	-
1,3-dichloropropane	mg/kg	0.1	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	-	-	-	-
Halogenated Aromatics						
Chlorobenzene	mg/kg	0.1	-	-	-	-
Bromobenzene	mg/kg	0.1	-	-	-	-
2-chlorotoluene	mg/kg	0.1	-	-	-	-
4-chlorotoluene	mg/kg	0.1	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	-
Monocyclic Aromatic Hydrocarbons						
Benzene	mg/kg	0.1	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	-
n-propylbenzene	mg/kg	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100692.011 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
VOC's in Soil Method: AN433/AN434 (continued)						
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-
Nitrogenous Compounds						
Acrylonitrile	mg/kg	0.1	-	-	-	-
Oxygenated Compounds						
Acetone (2-propanone)	mg/kg	10	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	-	-
Vinyl acetate	mg/kg	10	-	-	-	-
MEK (2-butanone)	mg/kg	10	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	-
2-hexanone (MBK)	mg/kg	5	-	-	-	-
Polycyclic VOCs						
Naphthalene	mg/kg	0.1	-	-	-	-
Sulphonated Compounds						
Carbon disulfide	mg/kg	0.5	-	-	-	-
Surrogates						
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
Totals						
Total Xylenes*	mg/kg	0.3	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-
Trihalomethanes						
Chloroform	mg/kg	0.1	-	-	-	-
Bromodichloromethane	mg/kg	0.1	-	-	-	-
Chlorodibromomethane	mg/kg	0.1	-	-	-	-
Bromoform	mg/kg	0.1	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434						
TRH C6-C9	mg/kg	20	<20	<20	<20	-
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
m/p-xylene	mg/kg	1	<1	<1	<1	-
o-xylene	mg/kg	0.5	<0.5	<0.5	<0.5	-
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	2.7	<2.7	<2.7	<2.7	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)						
Surrogates						
Trifluorotoluene (Surrogate)	%	-	**119**	**109**	**120**	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403						
TRH C10-C14	mg/kg	20	<20	**150**	<20	-
TRH C15-C28	mg/kg	50	<50	**7000**	**440**	-
TRH C29-C36	mg/kg	50	<50	**3100**	**350**	-
Surrogates						
TRH (Surrogate)	%	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420						
Naphthalene	mg/kg	0.1	<0.1	**10**	**0.7**	-
Acenaphthylene	mg/kg	0.1	<0.1	**1.9**	**2.1**	-
Acenaphthene	mg/kg	0.1	<0.1	**47**	**0.5**	-
Fluorene	mg/kg	0.1	<0.1	**68**	**1.8**	-
Phenanthrene	mg/kg	0.1	<0.1	**480**	**13**	-
Anthracene	mg/kg	0.1	<0.1	**91**	**3.5**	-
Fluoranthene	mg/kg	0.1	<0.1	**280**	**15**	-
Pyrene	mg/kg	0.1	<0.1	**380**	**14**	-
Benzo(a)anthracene	mg/kg	0.1	<0.1	**200**	**11**	-
Chrysene	mg/kg	0.1	<0.1	**130**	**4.7**	-
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	**120**	**8.8**	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	**45**	**2.0**	-
Benzo(a)pyrene	mg/kg	0.05	<0.05	**87**	**5.8**	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	**37**	**3.1**	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	**14**	**0.9**	-
Benzo(ghi)perylene	mg/kg	0.1	<0.1	**43**	**2.9**	-
Total PAH	mg/kg	1.75	<1.8↑	**2000**	**90**	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	**120**	**143**	**128**	-
2-fluorobiphenyl (Surrogate)	%	-	**97**	**147**	**116**	-
d14-p-terphenyl (Surrogate)	%	-	**124**	**166**	**124**	-
Full 8270 SVOC in Soil Method: AN420						
PAHs						
Acenaphthene	mg/kg	0.5	-	-	-	-
Acenaphthylene	mg/kg	0.5	-	-	-	-
Anthracene	mg/kg	0.5	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	-	-	-
Chrysene	mg/kg	0.5	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	-	-	-
Fluoranthene	mg/kg	0.5	-	-	-	-
Fluorene	mg/kg	0.5	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	-	-	-
Naphthalene	mg/kg	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Full 8270 SVOC in Soil Method: AN420 (continued)						
Phenanthrene	mg/kg	0.5	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-
OCs						
Aldrin	mg/kg	0.5	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-
OPs						
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-
Dimethoate	mg/kg	1	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-
EPN*	mg/kg	1	-	-	-	-
Ethion	mg/kg	1	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-
Phorate	mg/kg	1	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Full 8270 SVOC in Soil Method: AN420 (continued)						
Pirimiphos-methyl	mg/kg	1	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-
PCB UPAC(7) Congeners						
PCB Congener C28	mg/kg	0.5	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)						
Hexachlorobenzene	mg/kg	0.5	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Full 8270 SVOC in Soil Method: AN420 (continued)						
Phthalates						
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-
Carbamates						
Carbofuran	mg/kg	0.5	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-
Herbicides (normal)						
Trifluralin	mg/kg	0.5	-	-	-	-
Nitrosamines						
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-
Nitroaromatics and Ketones						
Acetophenone	mg/kg	0.5	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-
Phenacetin	mg/kg	1	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-
Anilines and Amines						
Aniline	mg/kg	3	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-
Haloethers						
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100692.011 Soil 10 Jun 2011 EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Full 8270 SVOC in Soil Method: AN420 (continued)						
Other SVOCs						
Methyl methanesulfonate	mg/kg	1	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	-	-	-
Dibenzofuran	mg/kg	0.5	-	-	-	-
Benzyl alcohol	mg/kg	1	-	-	-	-
Safrole	mg/kg	0.5	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-
Thionazin	mg/kg	1	-	-	-	-
Speciated Routine Phenols						
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-
2-chlorophenol	mg/kg	0.5	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-
2-nitrophenol	mg/kg	0.5	-	-	-	-
Phenol	mg/kg	0.5	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-
Pentachlorophenol	mg/kg	0.5	-	-	-	-
4-nitrophenol	mg/kg	0.5	-	-	-	-
Surrogates						
d5-phenol (Surrogate)	%	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320						
Arsenic, As	mg/kg	3	-	**12**	**7**	-
Cadmium, Cd	mg/kg	0.3	-	**0.5**	<0.3	-
Chromium, Cr	mg/kg	0.3	-	**33**	**22**	-
Copper, Cu	mg/kg	0.5	-	**100**	**110**	-
Lead, Pb	mg/kg	1	-	**300**	**360**	-
Nickel, Ni	mg/kg	0.5	-	**28**	**8.7**	-
Zinc, Zn	mg/kg	0.5	-	**540**	**230**	-
Mercury in Soil Method: AN312						
Mercury	mg/kg	0.05	-	**0.81**	**0.39**	-
Fibre Identification in soil Method: AN602						
FibreID						
Asbestos Detected	No unit	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100692.011 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: EB3/3.0-3.1	SE100692.012 Soil 10 Jun 2011 QC1	SE100692.013 Soil 10 Jun 2011 QC2	SE100692.014 Water 10 Jun 2011 TB
Moisture Content Method: AN234						
% Moisture	%	0.5	**18**	**20**	**11**	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434						
TRH C6-C9	mg/L	0.04	-	-	-	<0.04
Benzene	µg/L	0.5	-	-	-	<0.5
Toluene	µg/L	0.5	-	-	-	**1.0**
Ethylbenzene	µg/L	0.5	-	-	-	<0.5
m/p-xylene	µg/L	1	-	-	-	<1
o-xylene	µg/L	0.5	-	-	-	<0.5
MtBE (Methyl-tert-butyl ether)	µg/L	2	-	-	-	<2
Total BTEX*	µg/L	3	-	-	-	<3
Total Xylenes*	µg/L	1.5	-	-	-	<2↑
Surrogates						
Trifluorotoluene (Surrogate)	%	-	-	-	-	**80**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil **Method: ME-(AU)-[ENV]AN420**

PAHs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acenaphthene	LB002699	mg/kg	0.5	<0.5	NA
Acenaphthylene	LB002699	mg/kg	0.5	<0.5	NA
Anthracene	LB002699	mg/kg	0.5	<0.5	80%
Benzo(a)anthracene	LB002699	mg/kg	0.5	<0.5	NA
Benzo(b&k)fluoranthene	LB002699	mg/kg	1	<1	NA
Benzo(ghi)perylene	LB002699	mg/kg	0.5	<0.5	NA
Benzo(a)pyrene	LB002699	mg/kg	0.5	<0.5	71%
Chrysene	LB002699	mg/kg	0.5	<0.5	NA
Dibenzo(ah)anthracene	LB002699	mg/kg	0.5	<0.5	NA
Fluoranthene	LB002699	mg/kg	0.5	<0.5	77%
Fluorene	LB002699	mg/kg	0.5	<0.5	NA
Indeno(1,2,3-cd)pyrene	LB002699	mg/kg	0.5	<0.5	NA
1-methylnaphthalene	LB002699	mg/kg	0.5	<0.5	NA
2-methylnaphthalene	LB002699	mg/kg	0.5	<0.5	NA
Naphthalene	LB002699	mg/kg	0.5	<0.5	72%
Phenanthrene	LB002699	mg/kg	0.5	<0.5	75%
Pyrene	LB002699	mg/kg	0.5	<0.5	83%
2-acetylamino fluorene	LB002699	mg/kg	2	<2	NA
7,12-dimethyl-benz(a)anthracene	LB002699	mg/kg	0.5	<0.5	NA
3-methylcholanthrene	LB002699	mg/kg	1	<1	NA

OCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aldrin	LB002699	mg/kg	0.5	<0.5	88%
Alpha-BHC	LB002699	mg/kg	0.5	<0.5	NA
Beta-BHC	LB002699	mg/kg	0.5	<0.5	NA
Delta-BHC	LB002699	mg/kg	0.5	<0.5	NA
Gamma-BHC (Lindane)	LB002699	mg/kg	0.5	<0.5	NA
p,p-DDD	LB002699	mg/kg	0.5	<0.5	NA
p,p-DDE	LB002699	mg/kg	0.5	<0.5	NA
p,p-DDT	LB002699	mg/kg	0.5	<0.5	82%
Dieldrin	LB002699	mg/kg	0.5	<0.5	79%
Alpha-endosulfan	LB002699	mg/kg	0.5	<0.5	NA
Beta-endosulfan	LB002699	mg/kg	0.5	<0.5	NA
Endosulfan sulphate	LB002699	mg/kg	0.5	<0.5	NA
Endrin	LB002699	mg/kg	0.5	<0.5	79%
Heptachlor	LB002699	mg/kg	0.5	<0.5	109%
Heptachlor epoxide	LB002699	mg/kg	0.5	<0.5	NA
Isodrin	LB002699	mg/kg	0.5	<0.5	NA
Methoxychlor	LB002699	mg/kg	0.5	<0.5	NA
Mirex	LB002699	mg/kg	0.5	<0.5	NA
Alpha-chlordane	LB002699	mg/kg	0.5	<0.5	NA
Gamma-chlordane	LB002699	mg/kg	0.5	<0.5	NA
Endrin ketone	LB002699	mg/kg	0.5	<0.5	NA

OPs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Azinphos-methyl (Guthion)	LB002699	mg/kg	1	<1	NA
Bromophos ethyl	LB002699	mg/kg	1	<1	NA
Carbophenothion	LB002699	mg/kg	1	<1	NA
Chlorfenvinphos-cis (Chlofenvinphos-cis)	LB002699	mg/kg	5	<5	NA
Chlorfenvinphos-trans (Chlofenvinphos-trans)	LB002699	mg/kg	1	<1	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB002699	mg/kg	1	<1	102%
Chlorpyrifos-methyl	LB002699	mg/kg	1	<1	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

				MB	LCS %Recovery
Co-Ral (Coumaphos)	LB002699	mg/kg	1	<1	NA
Diazinon (Dimpylate)	LB002699	mg/kg	1	<1	104%
Dichlorvos	LB002699	mg/kg	1	<1	124%
Demeton-S-methyl	LB002699	mg/kg	1	<1	NA
Dimethoate	LB002699	mg/kg	1	<1	NA
Disulfoton (Di-syston)	LB002699	mg/kg	1	<1	NA
EPN*	LB002699	mg/kg	1	<1	NA
Ethion	LB002699	mg/kg	1	<1	105%
Ethoprophos (ethoprop or prophos)	LB002699	mg/kg	1	<1	NA
Famphur (Famophos)	LB002699	mg/kg	1	<1	NA
Fenamiphos (Phenamiphos)	LB002699	mg/kg	1	<1	NA
Fenchlorophos (Ronnel)	LB002699	mg/kg	1	<1	NA
Fenitrothion	LB002699	mg/kg	1	<1	NA
Fenthion	LB002699	mg/kg	1	<1	NA
Malathion (Maldison)	LB002699	mg/kg	1	<1	NA
Methidathion	LB002699	mg/kg	1	<1	NA
Mevinphos-cis/trans	LB002699	mg/kg	2	<2	NA
o,o,o-triethyl phosphorothioate	LB002699	mg/kg	1	<1	NA
Parathion ethyl (Parathion)	LB002699	mg/kg	1	<1	NA
Parathion methyl	LB002699	mg/kg	1	<1	NA
Phorate	LB002699	mg/kg	1	<1	NA
Pirimiphos-ethyl	LB002699	mg/kg	1	<1	NA
Pirimiphos-methyl	LB002699	mg/kg	1	<1	NA
Profenofos	LB002699	mg/kg	1	<1	NA
Prothiophos (Tokuthion)*	LB002699	mg/kg	1	<1	NA
Sulfotepp	LB002699	mg/kg	1	<1	NA
Tetrachlorvinphos (Stirophos)*	LB002699	mg/kg	1	<1	NA

PCB UPAC(7) Congeners

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
PCB Congener C28	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C52	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C101	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C118	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C138	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C153	LB002699	mg/kg	0.5	<0.5	NA
PCB Congener C180	LB002699	mg/kg	0.5	<0.5	NA

SVCH (Cl Benzenes, Hydrocarbons & VOCs)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Hexachlorobenzene	LB002699	mg/kg	0.5	<0.5	118%
1,2-dichlorobenzene	LB002699	mg/kg	0.5	<0.5	NA
1,3-dichlorobenzene	LB002699	mg/kg	0.5	<0.5	NA
1,4-dichlorobenzene	LB002699	mg/kg	0.5	<0.5	NA
Hexachlorobutadiene	LB002699	mg/kg	0.5	<0.5	NA
Hexachlorocyclopentadiene	LB002699	mg/kg	1	<1	NA
Hexachloroethane	LB002699	mg/kg	0.5	<0.5	NA
Hexachloroproprene	LB002699	mg/kg	0.5	<0.5	NA
Pentachlorobenzene	LB002699	mg/kg	0.5	<0.5	115%
Pentachloroethane	LB002699	mg/kg	0.5	<0.5	NA
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	LB002699	mg/kg	1	<1	NA
1,2,3,4-tetrachlorobenzene	LB002699	mg/kg	0.5	<0.5	124%
1/2-Chloronaphthalene	LB002699	mg/kg	1	<1	NA
1,2,4-trichlorobenzene	LB002699	mg/kg	0.5	<0.5	NA

Phthalates

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-ethylhexyl)phthalate	LB002699	mg/kg	5	<5	NA
Bis(2-ethylhexyl)adipate	LB002699	mg/kg	0.5	<0.5	NA
Butyl benzyl phthalate	LB002699	mg/kg	0.5	<0.5	120%
Di-n-butyl phthalate	LB002699	mg/kg	0.5	<0.5	111%
Diethyl phthalate	LB002699	mg/kg	0.5	<0.5	116%
Dimethyl phthalate	LB002699	mg/kg	0.5	<0.5	118%
Dioctyl phthalate	LB002699	mg/kg	0.5	<0.5	NA

Carbamates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbofuran	LB002699	mg/kg	0.5	<0.5	NA
Carbaryl	LB002699	mg/kg	0.5	<0.5	NA

Herbicides (normal)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluralin	LB002699	mg/kg	0.5	<0.5	NA

Nitrosamines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
N-nitroso-di-n-butylamine (NDBA)	LB002699	mg/kg	0.5	<0.5	NA
N-nitroso-diethylamine (NDEA)	LB002699	mg/kg	1	<1	NA
N-nitroso-di-n-propylamine (NDPA)	LB002699	mg/kg	0.5	<0.5	NA
N-nitroso-morpholine (NMOR)	LB002699	mg/kg	0.5	<0.5	NA
N-nitroso-piperidine (NPIP)	LB002699	mg/kg	0.5	<0.5	NA
N-nitroso-pyrrolidine (NPYR)	LB002699	mg/kg	1	<1	NA
4-amino biphenyl	LB002699	mg/kg	1	<1	NA

Nitroaromatics and Ketones

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetophenone	LB002699	mg/kg	0.5	<0.5	NA
1,3-dinitrobenzene	LB002699	mg/kg	1	<1	NA
2,4-dinitrotoluene	LB002699	mg/kg	0.5	<0.5	NA
2,6-dinitrotoluene	LB002699	mg/kg	0.5	<0.5	NA
Isophorone	LB002699	mg/kg	0.5	<0.5	NA
Nitrobenzene	LB002699	mg/kg	0.5	<0.5	NA
p-(dimethylamino) azobenzene	LB002699	mg/kg	1	<1	NA
Phenacetin	LB002699	mg/kg	1	<1	NA
Pentachloronitrobenzene (quintozene)	LB002699	mg/kg	0.5	<0.5	100%

Anilines and Amines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aniline	LB002699	mg/kg	3	<3	NA
4-chloroaniline	LB002699	mg/kg	1	<1	NA
2-nitroaniline	LB002699	mg/kg	1	<1	NA
3-nitroaniline	LB002699	mg/kg	1	<1	NA
4-nitroaniline	LB002699	mg/kg	1	<1	NA
Diphenylamine	LB002699	mg/kg	0.5	<0.5	NA
o-toluidine	LB002699	mg/kg	1	<1	NA
5-nitro-o-toluidine	LB002699	mg/kg	1	<1	NA
1-naphthylamine	LB002699	mg/kg	1	<1	NA
2-naphthylamine	LB002699	mg/kg	1	<1	NA

Haloethers

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-chloroethoxy) methane	LB002699	mg/kg	0.5	<0.5	NA
Bis(2-chloroethyl) ether	LB002699	mg/kg	0.5	<0.5	NA
Bis(2-chloroisopropyl) ether	LB002699	mg/kg	0.5	<0.5	NA
4-chlorophenyl phenyl ether	LB002699	mg/kg	0.5	<0.5	NA
4-bromophenyl phenyl ether	LB002699	mg/kg	0.5	<0.5	NA

Other SVOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Methyl methanesulfonate	LB002699	mg/kg	1	<1	NA
Ethyl methanesulfonate	LB002699	mg/kg	1	<1	NA
Dibenzofuran	LB002699	mg/kg	0.5	<0.5	NA
Benzyl alcohol	LB002699	mg/kg	1	<1	NA
Safrole	LB002699	mg/kg	0.5	<0.5	NA
Isosafrole Isomer 1	LB002699	mg/kg	1	<1	NA
Isosafrole Isomer 2	LB002699	mg/kg	1	<1	NA
1,4-naphthoquinone	LB002699	mg/kg	0.5	<0.5	NA
Thionazin	LB002699	mg/kg	1	<1	NA

Speciated Routine Phenols

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
3/4-methyl phenol (m/p-cresol)	LB002699	mg/kg	1	<1	NA
2-methyl phenol (o-cresol)	LB002699	mg/kg	0.5	<0.5	NA
2,6-dichlorophenol	LB002699	mg/kg	0.5	<0.5	NA
2,3,4,6 and 2,3,5,6-tetrachlorophenol	LB002699	mg/kg	1	<1	NA
2,4,5-trichlorophenol	LB002699	mg/kg	0.5	<0.5	NA
4-chloro-3-methylphenol	LB002699	mg/kg	1	<1	NA
2-chlorophenol	LB002699	mg/kg	0.5	<0.5	NA
2,4-dichlorophenol	LB002699	mg/kg	0.5	<0.5	130%
2,4-dimethyl phenol	LB002699	mg/kg	0.5	<0.5	NA
2-nitrophenol	LB002699	mg/kg	0.5	<0.5	NA
Phenol	LB002699	mg/kg	0.5	<0.5	110%
2,4,6-trichlorophenol	LB002699	mg/kg	0.5	<0.5	120%
Pentachlorophenol	LB002699	mg/kg	0.5	<0.5	100%
4-nitrophenol	LB002699	mg/kg	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-phenol (Surrogate)	LB002699	%	-	122%	110%
d5-nitrobenzene (Surrogate)	LB002699	%	-	118%	108%
2-fluorobiphenyl (Surrogate)	LB002699	%	-	130%	118%
2,4,6-tribromophenol (Surrogate)	LB002699	%	-	128%	119%
d14-p-terphenyl (Surrogate)	LB002699	%	-	130%	115%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB002717	mg/kg	0.05	<0.05	22 - 23%	111%	107%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002712	mg/kg	3	<3	8 - 16%	98%	94%
Cadmium, Cd	LB002712	mg/kg	0.3	<0.3	0 - 19%	97%	94%
Chromium, Cr	LB002712	mg/kg	0.3	<0.3	3 - 14%	96%	92%
Copper, Cu	LB002712	mg/kg	0.5	<0.5	4 - 9%	96%	90%
Lead, Pb	LB002712	mg/kg	1	<1	9%	95%	88%
Nickel, Ni	LB002712	mg/kg	0.5	<0.5	10 - 17%	97%	92%
Zinc, Zn	LB002712	mg/kg	0.5	<0.5	4 - 10%	96%	81%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Naphthalene	LB002668	mg/kg	0.1	<0.1		119%
	LB002699	mg/kg	0.1	<0.1	14%	113%
Acenaphthylene	LB002668	mg/kg	0.1	<0.1		120%
	LB002699	mg/kg	0.1	<0.1	17%	116%
Acenaphthene	LB002668	mg/kg	0.1	<0.1		122%
	LB002699	mg/kg	0.1	<0.1	16%	118%
Fluorene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	16%	NA
Phenanthrene	LB002668	mg/kg	0.1	<0.1		120%
	LB002699	mg/kg	0.1	<0.1	13%	117%
Anthracene	LB002668	mg/kg	0.1	<0.1		119%
	LB002699	mg/kg	0.1	<0.1	14%	120%
Fluoranthene	LB002668	mg/kg	0.1	<0.1		116%
	LB002699	mg/kg	0.1	<0.1	12%	119%
Pyrene	LB002668	mg/kg	0.1	<0.1		123%
	LB002699	mg/kg	0.1	<0.1	13%	127%
Benzo(a)anthracene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	13%	NA
Chrysene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	15%	NA
Benzo(b)fluoranthene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	5%	NA
Benzo(k)fluoranthene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	14%	NA
Benzo(a)pyrene	LB002668	mg/kg	0.05	<0.05		123%
	LB002699	mg/kg	0.05	<0.05	9%	120%
Indeno(1,2,3-cd)pyrene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	11%	NA
Dibenzo(a&h)anthracene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	11%	NA
Benzo(ghi)perylene	LB002668	mg/kg	0.1	<0.1		NA
	LB002699	mg/kg	0.1	<0.1	11%	NA
Total PAH	LB002668	mg/kg	1.75	<1.8		NA
	LB002699	mg/kg	1.75	<1.8	13%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002668	%	-	125%		120%
	LB002699	%	-	118%	16%	117%
2-fluorobiphenyl (Surrogate)	LB002668	%	-	119%		114%
	LB002699	%	-	105%	15%	107%
d14-p-terphenyl (Surrogate)	LB002668	%	-	125%		111%
	LB002699	%	-	121%	8%	105%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB002668	mg/kg	20	<20	0%	115%	
	LB002699	mg/kg	20	<20	18%	115%	128%
TRH C15-C28	LB002668	mg/kg	50	<50	19%	103%	
	LB002699	mg/kg	50	<50	29%	103%	90%
TRH C29-C36	LB002668	mg/kg	50	<50	24%	83%	
	LB002699	mg/kg	50	<50	30%	83%	95%

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

Fumigants

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
2,2-dichloropropane	LB002694	mg/kg	0.1	<0.1	NA
1,2-dichloropropane	LB002694	mg/kg	0.1	<0.1	NA
cis-1,3-dichloropropene	LB002694	mg/kg	0.1	<0.1	NA
trans-1,3-dichloropropene	LB002694	mg/kg	0.1	<0.1	NA
1,2-dibromoethane (EDB)	LB002694	mg/kg	0.1	<0.1	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dichlorodifluoromethane (CFC-12)	LB002694	mg/kg	1	<1	NA
Chloromethane	LB002694	mg/kg	1	<1	NA
Vinyl chloride (Chloroethene)	LB002694	mg/kg	0.1	<0.1	NA
Bromomethane	LB002694	mg/kg	1	<1	NA
Chloroethane	LB002694	mg/kg	1	<1	NA
Trichlorofluoromethane	LB002694	mg/kg	1	<1	NA
Iodomethane	LB002694	mg/kg	5	<5	NA
1,1-dichloroethene	LB002694	mg/kg	0.1	<0.1	96%
Dichloromethane (Methylene chloride)	LB002694	mg/kg	0.5	<0.5	NA
Allyl chloride	LB002694	mg/kg	0.1	<0.1	NA
trans-1,2-dichloroethene	LB002694	mg/kg	0.1	<0.1	NA
1,1-dichloroethane	LB002694	mg/kg	0.1	<0.1	NA
cis-1,2-dichloroethene	LB002694	mg/kg	0.1	<0.1	NA
Bromochloromethane	LB002694	mg/kg	0.1	<0.1	NA
1,2-dichloroethane	LB002694	mg/kg	0.1	<0.1	96%
1,1,1-trichloroethane	LB002694	mg/kg	0.1	<0.1	NA
1,1-dichloropropene	LB002694	mg/kg	0.1	<0.1	NA
Carbon tetrachloride	LB002694	mg/kg	0.1	<0.1	NA
Dibromomethane	LB002694	mg/kg	0.1	<0.1	NA
Trichloroethene (Trichloroethylene -TCE)	LB002694	mg/kg	0.1	<0.1	91%
1,1,2-trichloroethane	LB002694	mg/kg	0.1	<0.1	NA
1,3-dichloropropane	LB002694	mg/kg	0.1	<0.1	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB002694	mg/kg	0.1	<0.1	NA
1,1,1,2-tetrachloroethane	LB002694	mg/kg	0.1	<0.1	NA
cis-1,4-dichloro-2-butene	LB002694	mg/kg	1	<1	NA
1,1,2,2-tetrachloroethane	LB002694	mg/kg	0.1	<0.1	NA
1,2,3-trichloropropane	LB002694	mg/kg	0.1	<0.1	NA
trans-1,4-dichloro-2-butene	LB002694	mg/kg	1	<1	NA
1,2-dibromo-3-chloropropane	LB002694	mg/kg	0.1	<0.1	NA
Hexachlorobutadiene	LB002694	mg/kg	0.1	<0.1	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chlorobenzene	LB002694	mg/kg	0.1	<0.1	113%
Bromobenzene	LB002694	mg/kg	0.1	<0.1	NA
2-chlorotoluene	LB002694	mg/kg	0.1	<0.1	NA
4-chlorotoluene	LB002694	mg/kg	0.1	<0.1	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
1,3-dichlorobenzene	LB002694	mg/kg	0.1	<0.1	NA
1,4-dichlorobenzene	LB002694	mg/kg	0.1	<0.1	NA
1,2-dichlorobenzene	LB002694	mg/kg	0.1	<0.1	NA
1,2,4-trichlorobenzene	LB002694	mg/kg	0.1	<0.1	NA
1,2,3-trichlorobenzene	LB002694	mg/kg	0.1	<0.1	NA

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene	LB002694	mg/kg	0.1	<0.1	91%
Toluene	LB002694	mg/kg	0.1	<0.1	104%
Ethylbenzene	LB002694	mg/kg	0.1	<0.1	107%
m/p-xylene	LB002694	mg/kg	0.2	<0.2	111%
Styrene (Vinyl benzene)	LB002694	mg/kg	0.1	<0.1	NA
o-xylene	LB002694	mg/kg	0.1	<0.1	105%
Isopropylbenzene (Cumene)	LB002694	mg/kg	0.1	<0.1	NA
n-propylbenzene	LB002694	mg/kg	0.1	<0.1	NA
1,3,5-trimethylbenzene	LB002694	mg/kg	0.1	<0.1	NA
tert-butylbenzene	LB002694	mg/kg	0.1	<0.1	NA
1,2,4-trimethylbenzene	LB002694	mg/kg	0.1	<0.1	NA
sec-butylbenzene	LB002694	mg/kg	0.1	<0.1	NA
p-isopropyltoluene	LB002694	mg/kg	0.1	<0.1	NA
n-butylbenzene	LB002694	mg/kg	0.1	<0.1	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acrylonitrile	LB002694	mg/kg	0.1	<0.1	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetone (2-propanone)	LB002694	mg/kg	10	<10	NA
MtBE (Methyl-tert-butyl ether)	LB002694	mg/kg	0.5	<0.5	NA
Vinyl acetate	LB002694	mg/kg	10	<10	NA
MEK (2-butanone)	LB002694	mg/kg	10	<10	NA
MIBK (4-methyl-2-pentanone)	LB002694	mg/kg	1	<1	NA
2-hexanone (MBK)	LB002694	mg/kg	5	<5	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB002694	mg/kg	0.1	<0.1	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbon disulfide	LB002694	mg/kg	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB002694	%	-	91%	92%
d4-1,2-dichloroethane (Surrogate)	LB002694	%	-	98%	98%
d8-toluene (Surrogate)	LB002694	%	-	102%	96%
Bromofluorobenzene (Surrogate)	LB002694	%	-	86%	109%

Totals

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Total Xylenes*	LB002694	mg/kg	0.3	<0.3	NA
Total BTEX*	LB002694	mg/kg	-	0	NA

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chloroform	LB002694	mg/kg	0.1	<0.1	70%
Bromodichloromethane	LB002694	mg/kg	0.1	<0.1	NA
Chlorodibromomethane	LB002694	mg/kg	0.1	<0.1	NA
Bromoform	LB002694	mg/kg	0.1	<0.1	NA

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB002694	mg/kg	20	<20	0%	101%	101%
Benzene	LB002694	mg/kg	0.1	<0.1	0%	72%	
Toluene	LB002694	mg/kg	0.1	<0.1	0%	69%	
Ethylbenzene	LB002694	mg/kg	0.1	<0.1	0%	71%	
m/p-xylene	LB002694	mg/kg	1	<1	0%	70%	
o-xylene	LB002694	mg/kg	0.5	<0.5	0%	71%	
Total Xylenes	LB002694	mg/kg	0.3	<0.3	0%	70%	
Total BTEX*	LB002694	mg/kg	2.7	<2.7	0%	NA	

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB002694	%	-	111%	7 - 8%	122%	103%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB002753	mg/L	0.04	<0.04	125%
Benzene	LB002753	µg/L	0.5	<0.5	99%
Toluene	LB002753	µg/L	0.5	<0.5	100%
Ethylbenzene	LB002753	µg/L	0.5	<0.5	99%
m/p-xylene	LB002753	µg/L	1	<1	97%
o-xylene	LB002753	µg/L	0.5	<0.5	101%
MtBE (Methyl-tert-butyl ether)	LB002753	µg/L	2	<2	102%
Total BTEX*	LB002753	µg/L	3	<3	NA
Total Xylenes*	LB002753	µg/L	1.5	<2	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB002753	%	-	76%	71%

METHOD	METHODOLOGY SUMMARY
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Additional**
Order Number	**26331-26333**
Samples	2

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100692A R0
Report Number	0000004771
Date Reported	04 Aug 2011
Date Received	16 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Ly Kim Ha
Organics Supervisor

Parameter	Units	LOR	Sample Number SE100692A.002 Sample Matrix Soil Sample Date 10 Jun 2011 Sample Name EB1/1.4-1.5
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.5**
pH 1:20 plus HCL	pH Units	-	**1.8**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**50**
Volume of ExtractionSolution Used*	mL	-	**1000**
pH TCLP after 18 hours	pH Units	-	**5.4**
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	**5.1**
2-methylnaphthalene	µg/L	0.1	**6.6**
1-methylnaphthalene	µg/L	0.1	**7.8**
Acenaphthylene	µg/L	0.1	**0.3**
Acenaphthene	µg/L	0.1	**12**
Fluorene	µg/L	0.1	**13**
Phenanthrene	µg/L	0.1	**29**
Anthracene	µg/L	0.1	**5.5**
Fluoranthene	µg/L	0.1	**5.6**
Pyrene	µg/L	0.1	**4.3**
Benzo(a)anthracene	µg/L	0.1	**0.2**
Chrysene	µg/L	0.1	**0.2**
Benzo(b&k)fluoranthene	µg/L	0.2	<0.2
Benzo(b)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	**96**
2-fluorobiphenyl (Surrogate)	%	-	**99**
d14-p-terphenyl (Surrogate)	%	-	**98**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.47**

Parameter	Units	LOR	Sample Number SE100692A.008 Sample Matrix Soil Sample Date 10 Jun 2011 Sample Name EB3/1.0-1.1
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.8**
pH 1:20 plus HCL	pH Units	-	**1.9**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**50**
Volume of ExtractionSolution Used*	mL	-	**1000**
pH TCLP after 18 hours	pH Units	-	**5.7**

Parameter	Units	LOR	Sample Number SE100692A.008 Sample Matrix Soil Sample Date 10 Jun 2011 Sample Name EB3/1.0-1.1
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	**0.3**
2-methylnaphthalene	µg/L	0.1	**0.2**
1-methylnaphthalene	µg/L	0.1	**0.3**
Acenaphthylene	µg/L	0.1	**0.2**
Acenaphthene	µg/L	0.1	**0.4**
Fluorene	µg/L	0.1	**0.9**
Phenanthrene	µg/L	0.1	**4.3**
Anthracene	µg/L	0.1	**1.1**
Fluoranthene	µg/L	0.1	**1.9**
Pyrene	µg/L	0.1	**1.7**
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&k)fluoranthene	µg/L	0.2	<0.2
Benzo(b)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	**92**
2-fluorobiphenyl (Surrogate)	%	-	**96**
d14-p-terphenyl (Surrogate)	%	-	**97**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.16**

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Metals in Soil (TCLP) by ICPOES **Method: ME-(AU)-[ENV]AN320/AN321**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lead, Pb	LB003711	mg/L	0.02	<0.020	NA

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB003697	µg/L	0.1	<0.1	81%
2-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
1-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
Acenaphthylene	LB003697	µg/L	0.1	<0.1	86%
Acenaphthene	LB003697	µg/L	0.1	<0.1	92%
Fluorene	LB003697	µg/L	0.1	<0.1	NA
Phenanthrene	LB003697	µg/L	0.1	<0.1	92%
Anthracene	LB003697	µg/L	0.1	<0.1	96%
Fluoranthene	LB003697	µg/L	0.1	<0.1	94%
Pyrene	LB003697	µg/L	0.1	<0.1	100%
Benzo(a)anthracene	LB003697	µg/L	0.1	<0.1	NA
Chrysene	LB003697	µg/L	0.1	<0.1	NA
Benzo(b&k)fluoranthene	LB003697	µg/L	0.2	<0.2	NA
Benzo(b)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB003697	µg/L	0.1	<0.1	104%
Indeno(1,2,3-cd)pyrene	LB003697	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB003697	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB003697	µg/L	0.1	<0.1	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB003697	%	-	103%	113%
2-fluorobiphenyl (Surrogate)	LB003697	%	-	103%	113%
d14-p-terphenyl (Surrogate)	LB003697	%	-	96%	112%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST BURSWOOD NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA-Sydney Convention Centre**
Order Number	**92611-92612, 92615-62918**
Samples	32

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100700 R0
Report Number	0000003535
Date Reported	24/06/2011 6:35:24PM
Date Received	16 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

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

VPH - Sample #19 analysed after the recommended maximum holding time.

No respirable fibres detected using trace analysis technique.

Sample # 8: 2-5mm length fibre bundles found loose in sample and found in 6x4x2mm cement sheet fragment,.

Sample # 10: 4mm length fibre bundle x4 found loose in sample.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100700.005	AS01 1.0	Soil	15g Soil,Clay	07 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.006	AS01 3.0	Soil	18g Soil,Clay	07 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.007	BH13 1.0	Soil	27g Soil,Clay,Rocks	09 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.008	BH13 1.5	Soil	15g Soil,Clay,Rocks	09 Jun 2011	Amosite & Chrysotile Asbestos Detected Organic Fibres Detected	
SE100700.010	BH 13 2.5	Soil	10g Soil,Rocks	09 Jun 2011	Amosite & Chrysotile Asbestos Detected Organic Fibres Detected	
SE100700.013	BH6 2.0	Soil	24g Soil,Clay	09 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.014	BH6 2.5	Soil	30g Soil,Clay	09 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.015	BH6 4.0	Soil	7g Soil,Rocks	09 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.020	BH10 1.1-1.3	Soil	9g Soil,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.022	BH10 3.0	Soil	26g Soil,Clay	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100700.025	BH12 0.5	Soil	30g Soil,Clay,Rocks	10 Jun 2011	No Asbestos Detected	
SE100700.027	BH12 1.5	Soil	7g Soil,Clay,Rocks	10 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100700 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Nalin De Silva	Manager	Huong Crawford
Client	Coffey Geotechnics Pty Ltd	Laboratory	SGS Alexandria Environmental
Address	8/12 Mars Road LANE COVE WEST BURSWOOD NSW 2266	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	02 9911 1099	Telephone	+61 2 8594 0400
Facsimile	02 9911 1002	Facsimile	+61 2 8594 0499
Email	Nalin_DeSilva@coffey.com	Email	au.environmental.sydney@sgs.com
Project	**GEOTLOC24303AA-Sydney Convention Centre**	SGS Reference	SE100700 R0
Order Number	**92611-92612, 92615-62918**	Report Number	0000003533
Samples	32	Date Reported	24 Jun 2011
		Date Received	16 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

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

VPH - Sample #19 analysed after the recommended maximum holding time.

No respirable fibres detected using trace analysis technique.

Sample # 8: 2-5mm length fibre bundles found loose in sample and found in 6x4x2mm cement sheet fragment,.

Sample # 10: 4mm length fibre bundle x4 found loose in sample.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.001 Soil 07 Jun 2011 BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	-	-	-	-
Chloromethane	mg/kg	1		-	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	-	-	-	-
Bromomethane	mg/kg	1		-	-	-	-	-
Chloroethane	mg/kg	1		-	-	-	-	-
Trichlorofluoromethane	mg/kg	1		-	-	-	-	-
Iodomethane	mg/kg	5		-	-	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	-	-	-	-
Allyl chloride	mg/kg	0.1		-	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
Bromochloromethane	mg/kg	0.1		-	-	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	-	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	-	-	-	-
Dibromomethane	mg/kg	0.1		-	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1		-	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1		-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1		-	-	-	-	-
Halogenated Aromatics								
Chlorobenzene	mg/kg	0.1		-	-	-	-	-
Bromobenzene	mg/kg	0.1		-	-	-	-	-
2-chlorotoluene	mg/kg	0.1		-	-	-	-	-
4-chlorotoluene	mg/kg	0.1		-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1		-	-	-	-	-
Monocyclic Aromatic Hydrocarbons								
Benzene	mg/kg	0.1		-	-	-	-	-
Toluene	mg/kg	0.1		-	-	-	-	-
Ethylbenzene	mg/kg	0.1		-	-	-	-	-
m/p-xylene	mg/kg	0.2		-	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1		-	-	-	-	-
o-xylene	mg/kg	0.1		-	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1		-	-	-	-	-
n-propylbenzene	mg/kg	0.1		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.001	SE100700.002	SE100700.003	SE100700.004	SE100700.005
			Sample Matrix: Soil	Soil	Soil	Soil	Soil
			Sample Date: 07 Jun 2011	07 Jun 2011	07 Jun 2011	07 Jun 2011	07 Jun 2011
			Sample Name: BH1 1.0	BH1 3.0	AS01 3.0	AS01 5.5	AS01 1.0
VOC's in Soil Method: AN433/AN434 (continued)							
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-	-
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	-	-	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	-	-	-
Vinyl acetate	mg/kg	10	-	-	-	-	-
MEK (2-butanone)	mg/kg	10	-	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	-	-
2-hexanone (MBK)	mg/kg	5	-	-	-	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	-	-	-	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	-	-	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
Totals							
Total Xylenes*	mg/kg	0.3	-	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	-	-	-	-	-
Bromodichloromethane	mg/kg	0.1	-	-	-	-	-
Chlorodibromomethane	mg/kg	0.1	-	-	-	-	-
Bromoform	mg/kg	0.1	-	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	<20	-	-	-
Benzene	mg/kg	0.1	<0.1	<0.1	-	-	-
Toluene	mg/kg	0.1	<0.1	<0.1	-	-	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	-
m/p-xylene	mg/kg	1	<1	<1	-	-	-
o-xylene	mg/kg	0.5	<0.5	<0.5	-	-	-
Total Xylenes	mg/kg	0.3	<0.3	<0.3	-	-	-
Total BTEX*	mg/kg	2.7	<2.7	<2.7	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.001 Soil 07 Jun 2011 BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)							
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**103**	**74**	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	<20	-	-	-
TRH C15-C28	mg/kg	50	<50	<50	-	-	-
TRH C29-C36	mg/kg	50	<50	<50	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-	-
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	-	-	-
Acenaphthene	mg/kg	0.1	<0.1	<0.1	-	-	-
Fluorene	mg/kg	0.1	<0.1	<0.1	-	-	-
Phenanthrene	mg/kg	0.1	<0.1	<0.1	-	-	-
Anthracene	mg/kg	0.1	<0.1	<0.1	-	-	-
Fluoranthene	mg/kg	0.1	<0.1	**0.2**	-	-	-
Pyrene	mg/kg	0.1	<0.1	**0.2**	-	-	-
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-	-
Chrysene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.05	<0.05	<0.05	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-	-
Total PAH	mg/kg	1.75	<1.8↑	<1.8↑	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**108**	**102**	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	**101**	**100**	-	-	-
d14-p-terphenyl (Surrogate)	%	-	**84**	**102**	-	-	-
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	-	<0.5	-	-	-
Acenaphthylene	mg/kg	0.5	-	<0.5	-	-	-
Anthracene	mg/kg	0.5	-	<0.5	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	<0.5	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	<1	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	<0.5	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	<0.5	-	-	-
Chrysene	mg/kg	0.5	-	<0.5	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	<0.5	-	-	-
Fluoranthene	mg/kg	0.5	-	<0.5	-	-	-
Fluorene	mg/kg	0.5	-	<0.5	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	<0.5	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	<0.5	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	<0.5	-	-	-
Naphthalene	mg/kg	0.5	-	<0.5	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.001 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenanthrene	mg/kg	0.5	-	<0.5	-	-	-
Pyrene	mg/kg	0.5	-	<0.5	-	-	-
2-acetylamino fluorene	mg/kg	2	-	<2	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	<0.5	-	-	-
3-methylcholanthrene	mg/kg	1	-	<1	-	-	-
OCs							
Aldrin	mg/kg	0.5	-	<0.5	-	-	-
Alpha-BHC	mg/kg	0.5	-	<0.5	-	-	-
Beta-BHC	mg/kg	0.5	-	<0.5	-	-	-
Delta-BHC	mg/kg	0.5	-	<0.5	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDD	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDE	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDT	mg/kg	0.5	-	<0.5	-	-	-
Dieldrin	mg/kg	0.5	-	<0.5	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	<0.5	-	-	-
Beta-endosulfan	mg/kg	0.5	-	<0.5	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	<0.5	-	-	-
Endrin	mg/kg	0.5	-	<0.5	-	-	-
Heptachlor	mg/kg	0.5	-	<0.5	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	<0.5	-	-	-
Isodrin	mg/kg	0.5	-	<0.5	-	-	-
Methoxychlor	mg/kg	0.5	-	<0.5	-	-	-
Mirex	mg/kg	0.5	-	<0.5	-	-	-
Alpha-chlordane	mg/kg	0.5	-	<0.5	-	-	-
Gamma-chlordane	mg/kg	0.5	-	<0.5	-	-	-
Endrin ketone	mg/kg	0.5	-	<0.5	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	<1	-	-	-
Bromophos ethyl	mg/kg	1	-	<1	-	-	-
Carbophenothion	mg/kg	1	-	<1	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	<5	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	<1	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	<1	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	<1	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	<1	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	<1	-	-	-
Dichlorvos	mg/kg	1	-	<1	-	-	-
Demeton-S-methyl	mg/kg	1	-	<1	-	-	-
Dimethoate	mg/kg	1	-	<1	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	<1	-	-	-
EPN*	mg/kg	1	-	<1	-	-	-
Ethion	mg/kg	1	-	<1	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	<1	-	-	-
Famphur (Famophos)	mg/kg	1	-	<1	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	<1	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	<1	-	-	-
Fenitrothion	mg/kg	1	-	<1	-	-	-
Fenthion	mg/kg	1	-	<1	-	-	-
Malathion (Maldison)	mg/kg	1	-	<1	-	-	-
Methidathion	mg/kg	1	-	<1	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	<2	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	<1	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	<1	-	-	-
Parathion methyl	mg/kg	1	-	<1	-	-	-
Phorate	mg/kg	1	-	<1	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	<1	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.001 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Pirimiphos-methyl	mg/kg	1	-	<1	-	-	-
Profenofos	mg/kg	1	-	<1	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	<1	-	-	-
Sulfotepp	mg/kg	1	-	<1	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	<1	-	-	-
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C52	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C101	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C118	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C138	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C153	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C180	mg/kg	0.5	-	<0.5	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.5	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	<1	-	-	-
Hexachloroethane	mg/kg	0.5	-	<0.5	-	-	-
Hexachloroproprene	mg/kg	0.5	-	<0.5	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
Pentachloroethane	mg/kg	0.5	-	<0.5	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	<1	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	<1	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.001 Soil 07 Jun 2011 BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Full 8270 SVOC in Soil **Method: AN420 (continued)**								
Phthalates								
Bis(2-ethylhexyl)phthalate	mg/kg	5		-	<5	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5		-	<0.5	-	-	-
Butyl benzyl phthalate	mg/kg	0.5		-	<0.5	-	-	-
Di-n-butyl phthalate	mg/kg	0.5		-	<0.5	-	-	-
Diethyl phthalate	mg/kg	0.5		-	<0.5	-	-	-
Dimethyl phthalate	mg/kg	0.5		-	<0.5	-	-	-
Dioctyl phthalate	mg/kg	0.5		-	<0.5	-	-	-
Carbamates								
Carbofuran	mg/kg	0.5		-	<0.5	-	-	-
Carbaryl	mg/kg	0.5		-	<0.5	-	-	-
Herbicides (normal)								
Trifluralin	mg/kg	0.5		-	<0.5	-	-	-
Nitrosamines								
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5		-	<0.5	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1		-	<1	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5		-	<0.5	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5		-	<0.5	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5		-	<0.5	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1		-	<1	-	-	-
4-amino biphenyl	mg/kg	1		-	<1	-	-	-
Nitroaromatics and Ketones								
Acetophenone	mg/kg	0.5		-	<0.5	-	-	-
1,3-dinitrobenzene	mg/kg	1		-	<1	-	-	-
2,4-dinitrotoluene	mg/kg	0.5		-	<0.5	-	-	-
2,6-dinitrotoluene	mg/kg	0.5		-	<0.5	-	-	-
Isophorone	mg/kg	0.5		-	<0.5	-	-	-
Nitrobenzene	mg/kg	0.5		-	<0.5	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1		-	<1	-	-	-
Phenacetin	mg/kg	1		-	<1	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5		-	<0.5	-	-	-
Anilines and Amines								
Aniline	mg/kg	3		-	<3	-	-	-
4-chloroaniline	mg/kg	1		-	<1	-	-	-
2-nitroaniline	mg/kg	1		-	<1	-	-	-
3-nitroaniline	mg/kg	1		-	<1	-	-	-
4-nitroaniline	mg/kg	1		-	<1	-	-	-
Diphenylamine	mg/kg	0.5		-	<0.5	-	-	-
o-toluidine	mg/kg	1		-	<1	-	-	-
5-nitro-o-toluidine	mg/kg	1		-	<1	-	-	-
1-naphthylamine	mg/kg	1		-	<1	-	-	-
2-naphthylamine	mg/kg	1		-	<1	-	-	-
Haloethers								
Bis(2-chloroethoxy) methane	mg/kg	0.5		-	<0.5	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5		-	<0.5	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5		-	<0.5	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5		-	<0.5	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5		-	<0.5	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.001 Soil 07 Jun 2011 BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Full 8270 SVOC in Soil Method: AN420 (continued)								
Other SVOCs								
Methyl methanesulfonate	mg/kg	1		-	<1	-	-	-
Ethyl methanesulfonate	mg/kg	1		-	<1	-	-	-
Dibenzofuran	mg/kg	0.5		-	<0.5	-	-	-
Benzyl alcohol	mg/kg	1		-	<1	-	-	-
Safrole	mg/kg	0.5		-	<0.5	-	-	-
Isosafrole Isomer 1	mg/kg	1		-	<1	-	-	-
Isosafrole Isomer 2	mg/kg	1		-	<1	-	-	-
1,4-naphthoquinone	mg/kg	0.5		-	<0.5	-	-	-
Thionazin	mg/kg	1		-	<1	-	-	-
Speciated Routine Phenols								
3/4-methyl phenol (m/p-cresol)	mg/kg	1		-	<1	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5		-	<0.5	-	-	-
2,6-dichlorophenol	mg/kg	0.5		-	<0.5	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1		-	<1	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5		-	<0.5	-	-	-
4-chloro-3-methylphenol	mg/kg	1		-	<1	-	-	-
2-chlorophenol	mg/kg	0.5		-	<0.5	-	-	-
2,4-dichlorophenol	mg/kg	0.5		-	<0.5	-	-	-
2,4-dimethyl phenol	mg/kg	0.5		-	<0.5	-	-	-
2-nitrophenol	mg/kg	0.5		-	<0.5	-	-	-
Phenol	mg/kg	0.5		-	<0.5	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5		-	<0.5	-	-	-
Pentachlorophenol	mg/kg	0.5		-	<0.5	-	-	-
4-nitrophenol	mg/kg	0.5		-	<0.5	-	-	-
Surrogates								
d5-phenol (Surrogate)	%	-		-	**106**	-	-	-
d5-nitrobenzene (Surrogate)	%	-		-	**113**	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	**128**	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-		-	**128**	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	**128**	-	-	-
Field pH for Acid Sulphate Soil Method: AN104								
PHf	pH Units	-		-	-	**8.0**	**8.3**	-
PHfox	pH Units	-		-	-	**2.9**	**4.0**	-
Reaction*	No unit	-		-	-	XXX	X	-
pH Difference*	pH Units	-10		-	-	**5.1**	**4.3**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3		**3**	**9**	-	-	-
Cadmium, Cd	mg/kg	0.3		**0.3**	<0.3	-	-	-
Chromium, Cr	mg/kg	0.3		**9.0**	**16**	-	-	-
Copper, Cu	mg/kg	0.5		**13**	**21**	-	-	-
Lead, Pb	mg/kg	1		**15**	**25**	-	-	-
Nickel, Ni	mg/kg	0.5		**7.7**	**3.6**	-	-	-
Zinc, Zn	mg/kg	0.5		**30**	**25**	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.001 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	<0.05	**0.05**	-	-	-
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	-	-	-	No
Moisture Content Method: AN234							
% Moisture	%	0.5	**10**	**16**	**16**	**18**	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.001 Soil 07 Jun 2011 BH1 1.0	SE100700.002 Soil 07 Jun 2011 BH1 3.0	SE100700.003 Soil 07 Jun 2011 AS01 3.0	SE100700.004 Soil 07 Jun 2011 AS01 5.5	SE100700.005 Soil 07 Jun 2011 AS01 1.0
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 (continued)								
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318								
Arsenic, As	µg/L	1		-	-	-	-	-
Cadmium, Cd	µg/L	0.1		-	-	-	-	-
Chromium, Cr	µg/L	1		-	-	-	-	-
Copper, Cu	µg/L	1		-	-	-	-	-
Lead, Pb	µg/L	1		-	-	-	-	-
Nickel, Ni	µg/L	1		-	-	-	-	-
Zinc, Zn	µg/L	1		-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312								
Mercury	mg/L	0.0001		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	-	-	-	-
Chloromethane	mg/kg	1		-	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	-	-	-	-
Bromomethane	mg/kg	1		-	-	-	-	-
Chloroethane	mg/kg	1		-	-	-	-	-
Trichlorofluoromethane	mg/kg	1		-	-	-	-	-
Iodomethane	mg/kg	5		-	-	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	-	-	-	-
Allyl chloride	mg/kg	0.1		-	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
Bromochloromethane	mg/kg	0.1		-	-	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	-	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	-	-	-	-
Dibromomethane	mg/kg	0.1		-	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.006 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
VOC's in Soil Method: AN433/AN434 (continued)							
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	-	-	-	-	-
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	-	-	-	-	-
Bromobenzene	mg/kg	0.1	-	-	-	-	-
2-chlorotoluene	mg/kg	0.1	-	-	-	-	-
4-chlorotoluene	mg/kg	0.1	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	-	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	-	-
n-propylbenzene	mg/kg	0.1	-	-	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
VOC's in Soil Method: AN433/AN434 (continued)								
Nitrogenous Compounds								
Acrylonitrile	mg/kg	0.1		-	-	-	-	-
Oxygenated Compounds								
Acetone (2-propanone)	mg/kg	10		-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5		-	-	-	-	-
Vinyl acetate	mg/kg	10		-	-	-	-	-
MEK (2-butanone)	mg/kg	10		-	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1		-	-	-	-	-
2-hexanone (MBK)	mg/kg	5		-	-	-	-	-
Polycyclic VOCs								
Naphthalene	mg/kg	0.1		-	-	-	-	-
Sulphonated Compounds								
Carbon disulfide	mg/kg	0.5		-	-	-	-	-
Surrogates								
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
Totals								
Total Xylenes*	mg/kg	0.3		-	-	-	-	-
Total BTEX*	mg/kg	-		-	-	-	-	-
Total VOC*	mg/kg	24		-	-	-	-	-
Trihalomethanes								
Chloroform	mg/kg	0.1		-	-	-	-	-
Bromodichloromethane	mg/kg	0.1		-	-	-	-	-
Chlorodibromomethane	mg/kg	0.1		-	-	-	-	-
Bromoform	mg/kg	0.1		-	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434								
TRH C6-C9	mg/kg	20		-	-	<20	-	-
Benzene	mg/kg	0.1		-	-	<0.1	-	-
Toluene	mg/kg	0.1		-	-	<0.1	-	-
Ethylbenzene	mg/kg	0.1		-	-	<0.1	-	-
m/p-xylene	mg/kg	1		-	-	<1	-	-
o-xylene	mg/kg	0.5		-	-	<0.5	-	-
Total Xylenes	mg/kg	0.3		-	-	<0.3	-	-
Total BTEX*	mg/kg	2.7		-	-	<2.7	-	-
Surrogates								
Trifluorotoluene (Surrogate)	%	-		-	-	**68**	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	-	-	<20	-	-
TRH C15-C28	mg/kg	50	-	-	<50	-	-
TRH C29-C36	mg/kg	50	-	-	<50	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	-	-	<0.1	-	-
Acenaphthylene	mg/kg	0.1	-	-	**0.2**	-	-
Acenaphthene	mg/kg	0.1	-	-	<0.1	-	-
Fluorene	mg/kg	0.1	-	-	<0.1	-	-
Phenanthrene	mg/kg	0.1	-	-	**0.5**	-	-
Anthracene	mg/kg	0.1	-	-	**0.2**	-	-
Fluoranthene	mg/kg	0.1	-	-	**1.1**	-	-
Pyrene	mg/kg	0.1	-	-	**1.2**	-	-
Benzo(a)anthracene	mg/kg	0.1	-	-	**0.9**	-	-
Chrysene	mg/kg	0.1	-	-	**0.6**	-	-
Benzo(b)fluoranthene	mg/kg	0.1	-	-	**1.0**	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	**0.4**	-	-
Benzo(a)pyrene	mg/kg	0.05	-	-	**0.88**	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	**0.4**	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	<0.1	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	**0.5**	-	-
Total PAH	mg/kg	1.75	-	-	**6.5**	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	-	-	**110**	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	**108**	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	**85**	-	-
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	-	-	-	-	-
Acenaphthylene	mg/kg	0.5	-	-	-	-	-
Anthracene	mg/kg	0.5	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	-	-	-	-
Chrysene	mg/kg	0.5	-	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	-	-	-	-
Fluoranthene	mg/kg	0.5	-	-	-	-	-
Fluorene	mg/kg	0.5	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	-	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	-	-	-	-
Naphthalene	mg/kg	0.5	-	-	-	-	-
Phenanthrene	mg/kg	0.5	-	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.006 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
OCs							
Aldrin	mg/kg	0.5	-	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-	-
Dimethoate	mg/kg	1	-	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-	-
EPN*	mg/kg	1	-	-	-	-	-
Ethion	mg/kg	1	-	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-	-
Phorate	mg/kg	1	-	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-	-
Pirimiphos-methyl	mg/kg	1	-	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-	-
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	-	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	-	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.006 Sample Matrix: Soil Sample Date: 07 Jun 2011 Sample Name: AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenacetin	mg/kg	1	-	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	-	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	-	-	-	-
Dibenzofuran	mg/kg	0.5	-	-	-	-	-
Benzyl alcohol	mg/kg	1	-	-	-	-	-
Safrole	mg/kg	0.5	-	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-	-
Thionazin	mg/kg	1	-	-	-	-	-
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-	-
2-chlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-	-
2-nitrophenol	mg/kg	0.5	-	-	-	-	-
Phenol	mg/kg	0.5	-	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-	-
Pentachlorophenol	mg/kg	0.5	-	-	-	-	-
4-nitrophenol	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Surrogates							
d5-phenol (Surrogate)	%	-	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Field pH for Acid Sulphate Soil Method: AN104							
PHf	pH Units	-	-	-	-	**8.1**	-
PHfox	pH Units	-	-	-	-	**6.3**	-
Reaction*	No unit	-	-	-	-	X	-
pH Difference*	pH Units	-10	-	-	-	**1.7**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	-	-	**10**	-	-
Cadmium, Cd	mg/kg	0.3	-	-	**0.8**	-	-
Chromium, Cr	mg/kg	0.3	-	-	**9.3**	-	-
Copper, Cu	mg/kg	0.5	-	-	**70**	-	-
Lead, Pb	mg/kg	1	-	-	**140**	-	-
Nickel, Ni	mg/kg	0.5	-	-	**6.2**	-	-
Zinc, Zn	mg/kg	0.5	-	-	**730**	-	-
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	-	-	**0.45**	-	-
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	No	No	Yes	-	Yes
Moisture Content Method: AN234							
% Moisture	%	0.5	-	-	**15**	**18**	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.006 Soil 07 Jun 2011 AS01 3.0	SE100700.007 Soil 09 Jun 2011 BH13 1.0	SE100700.008 Soil 09 Jun 2011 BH13 1.5	SE100700.009 Soil 09 Jun 2011 BH13 2.0	SE100700.010 Soil 09 Jun 2011 BH 13 2.5
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318							
Arsenic, As	µg/L	1	-	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-	-
Zinc, Zn	µg/L	1	-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312							
Mercury	mg/L	0.0001	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.011 Soil 09 Jun 2011 BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2-dichloropropane	mg/kg	0.1		<0.1	-	<0.1	-	-
cis-1,3-dichloropropene	mg/kg	0.1		<0.1	-	<0.1	-	-
trans-1,3-dichloropropene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		<0.1	-	<0.1	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		<1	-	<1	-	-
Chloromethane	mg/kg	1		<1	-	<1	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		<0.1	-	<0.1	-	-
Bromomethane	mg/kg	1		<1	-	<1	-	-
Chloroethane	mg/kg	1		<1	-	<1	-	-
Trichlorofluoromethane	mg/kg	1		<1	-	<1	-	-
Iodomethane	mg/kg	5		<5	-	<5	-	-
1,1-dichloroethene	mg/kg	0.1		<0.1	-	<0.1	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		<0.5	-	<0.5	-	-
Allyl chloride	mg/kg	0.1		<0.1	-	<0.1	-	-
trans-1,2-dichloroethene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,1-dichloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
cis-1,2-dichloroethene	mg/kg	0.1		<0.1	-	<0.1	-	-
Bromochloromethane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2-dichloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,1,1-trichloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,1-dichloropropene	mg/kg	0.1		<0.1	-	<0.1	-	-
Carbon tetrachloride	mg/kg	0.1		<0.1	-	<0.1	-	-
Dibromomethane	mg/kg	0.1		<0.1	-	<0.1	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		<0.1	-	<0.1	-	-
1,1,2-trichloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,3-dichloropropane	mg/kg	0.1		<0.1	-	<0.1	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		<0.1	-	<0.1	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		<1	-	<1	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2,3-trichloropropane	mg/kg	0.1		<0.1	-	<0.1	-	-
trans-1,4-dichloro-2-butene	mg/kg	1		<1	-	<1	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1		<0.1	-	<0.1	-	-
Hexachlorobutadiene	mg/kg	0.1		<0.1	-	<0.1	-	-
Halogenated Aromatics								
Chlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
Bromobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
2-chlorotoluene	mg/kg	0.1		<0.1	-	<0.1	-	-
4-chlorotoluene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,3-dichlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,4-dichlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2-dichlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2,4-trichlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
1,2,3-trichlorobenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
Monocyclic Aromatic Hydrocarbons								
Benzene	mg/kg	0.1		<0.1	-	<0.1	-	-
Toluene	mg/kg	0.1		<0.1	-	<0.1	-	-
Ethylbenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
m/p-xylene	mg/kg	0.2		<0.2	-	<0.2	-	-
Styrene (Vinyl benzene)	mg/kg	0.1		<0.1	-	<0.1	-	-
o-xylene	mg/kg	0.1		<0.1	-	<0.1	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1		<0.1	-	<0.1	-	-
n-propylbenzene	mg/kg	0.1		<0.1	-	<0.1	-	-

Parameter	Units	LOR	Sample Number: SE100700.011 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
VOC's in Soil Method: AN433/AN434 (continued)							
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
tert-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
sec-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
p-isopropyltoluene	mg/kg	0.1	<0.1	-	<0.1	-	-
n-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	<0.1	-	<0.1	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	<10	-	<10	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	<0.5	-	<0.5	-	-
Vinyl acetate	mg/kg	10	<10	-	<10	-	-
MEK (2-butanone)	mg/kg	10	<10	-	<10	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	-	<1	-	-
2-hexanone (MBK)	mg/kg	5	<5	-	<5	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	<0.1	-	<0.1	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	<0.5	-	<0.5	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	**88**	-	**88**	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	**104**	-	**106**	-	-
d8-toluene (Surrogate)	%	-	**98**	-	**97**	-	-
Bromofluorobenzene (Surrogate)	%	-	**82**	-	**83**	-	-
Totals							
Total Xylenes*	mg/kg	0.3	<0.3	-	<0.3	-	-
Total BTEX*	mg/kg	-	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	<0.1	-	<0.1	-	-
Bromodichloromethane	mg/kg	0.1	<0.1	-	<0.1	-	-
Chlorodibromomethane	mg/kg	0.1	<0.1	-	<0.1	-	-
Bromoform	mg/kg	0.1	<0.1	-	<0.1	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	-	<20	-	-
Benzene	mg/kg	0.1	-	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-
m/p-xylene	mg/kg	1	-	-	-	-	-
o-xylene	mg/kg	0.5	-	-	-	-	-
Total Xylenes	mg/kg	0.3	-	-	-	-	-
Total BTEX*	mg/kg	2.7	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.011 Soil 09 Jun 2011 BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)								
Surrogates								
Trifluorotoluene (Surrogate)	%	-		**74**	-	**95**	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403								
TRH C10-C14	mg/kg	20		<20	-	<20	-	-
TRH C15-C28	mg/kg	50		<50	-	<50	-	-
TRH C29-C36	mg/kg	50		<50	-	<50	-	-
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420								
Naphthalene	mg/kg	0.1		<0.1	-	<0.1	-	-
Acenaphthylene	mg/kg	0.1		<0.1	-	<0.1	-	-
Acenaphthene	mg/kg	0.1		<0.1	-	<0.1	-	-
Fluorene	mg/kg	0.1		<0.1	-	<0.1	-	-
Phenanthrene	mg/kg	0.1		<0.1	-	<0.1	-	-
Anthracene	mg/kg	0.1		<0.1	-	<0.1	-	-
Fluoranthene	mg/kg	0.1		<0.1	-	<0.1	-	-
Pyrene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(a)anthracene	mg/kg	0.1		<0.1	-	<0.1	-	-
Chrysene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(b)fluoranthene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(a)pyrene	mg/kg	0.05		<0.05	-	<0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		<0.1	-	<0.1	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(ghi)perylene	mg/kg	0.1		<0.1	-	<0.1	-	-
Total PAH	mg/kg	1.75		<1.8↑	-	<1.8↑	-	-
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		**109**	-	**73**	-	-
2-fluorobiphenyl (Surrogate)	%	-		**98**	-	**82**	-	-
d14-p-terphenyl (Surrogate)	%	-		**83**	-	**81**	-	-
Full 8270 SVOC in Soil Method: AN420								
PAHs								
Acenaphthene	mg/kg	0.5		-	-	-	-	-
Acenaphthylene	mg/kg	0.5		-	-	-	-	-
Anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1		-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5		-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5		-	-	-	-	-
Chrysene	mg/kg	0.5		-	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5		-	-	-	-	-
Fluoranthene	mg/kg	0.5		-	-	-	-	-
Fluorene	mg/kg	0.5		-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5		-	-	-	-	-
1-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
2-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
Naphthalene	mg/kg	0.5		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.011 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenanthrene	mg/kg	0.5	-	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-	-
OCs							
Aldrin	mg/kg	0.5	-	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-	-
Dimethoate	mg/kg	1	-	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-	-
EPN*	mg/kg	1	-	-	-	-	-
Ethion	mg/kg	1	-	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-	-
Phorate	mg/kg	1	-	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.011 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Pirimiphos-methyl	mg/kg	1	-	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-	-
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.011 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	-	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	-	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-	-
Phenacetin	mg/kg	1	-	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	-	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.011 Soil 09 Jun 2011 BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Full 8270 SVOC in Soil Method: AN420 (continued)							
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	-	-	-	-
Dibenzofuran	mg/kg	0.5	-	-	-	-	-
Benzyl alcohol	mg/kg	1	-	-	-	-	-
Safrole	mg/kg	0.5	-	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-	-
Thionazin	mg/kg	1	-	-	-	-	-
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-	-
2-chlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-	-
2-nitrophenol	mg/kg	0.5	-	-	-	-	-
Phenol	mg/kg	0.5	-	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-	-
Pentachlorophenol	mg/kg	0.5	-	-	-	-	-
4-nitrophenol	mg/kg	0.5	-	-	-	-	-
Surrogates							
d5-phenol (Surrogate)	%	-	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Field pH for Acid Sulphate Soil Method: AN104							
PHf	pH Units	-	-	**8.3**	**7.6**	-	-
PHfox	pH Units	-	-	**3.4**	**5.1**	-	-
Reaction*	No unit	-	-	XXX	X	-	-
pH Difference*	pH Units	-10	-	**4.9**	**2.5**	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	**180**	-	**8**	-	-
Cadmium, Cd	mg/kg	0.3	<0.3	-	<0.3	-	-
Chromium, Cr	mg/kg	0.3	**17**	-	**6.4**	-	-
Copper, Cu	mg/kg	0.5	**11**	-	**9.3**	-	-
Lead, Pb	mg/kg	1	**49**	-	**15**	-	-
Nickel, Ni	mg/kg	0.5	**11**	-	**1.2**	-	-
Zinc, Zn	mg/kg	0.5	**18**	-	**12**	-	-

Parameter	Units	LOR	Sample Number: SE100700.011 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	**0.21**	-	**0.41**	-	-
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	-	No	No	No
Moisture Content Method: AN234							
% Moisture	%	0.5	**28**	**18**	**21**	-	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.011 Soil 09 Jun 2011 BH13 4.0	SE100700.012 Soil 09 Jun 2011 BH13 5.5	SE100700.013 Soil 09 Jun 2011 BH6 2.0	SE100700.014 Soil 09 Jun 2011 BH6 2.5	SE100700.015 Soil 09 Jun 2011 BH6 4.0
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 (continued)								
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318								
Arsenic, As	µg/L	1		-	-	-	-	-
Cadmium, Cd	µg/L	0.1		-	-	-	-	-
Chromium, Cr	µg/L	1		-	-	-	-	-
Copper, Cu	µg/L	1		-	-	-	-	-
Lead, Pb	µg/L	1		-	-	-	-	-
Nickel, Ni	µg/L	1		-	-	-	-	-
Zinc, Zn	µg/L	1		-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312								
Mercury	mg/L	0.0001		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	-	-	-	<1.0↑
1,2-dichloropropane	mg/kg	0.1		-	-	-	-	<1.0↑
cis-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	<1.0↑
trans-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	<1.0↑
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	-	-	<1.0↑
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	-	-	-	<10↑
Chloromethane	mg/kg	1		-	-	-	-	<10↑
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	-	-	-	<0.5↑
Bromomethane	mg/kg	1		-	-	-	-	<5↑
Chloroethane	mg/kg	1		-	-	-	-	<5↑
Trichlorofluoromethane	mg/kg	1		-	-	-	-	<5↑
Iodomethane	mg/kg	5		-	-	-	-	<50↑
1,1-dichloroethene	mg/kg	0.1		-	-	-	-	<1.0↑
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	-	-	-	<5.0↑
Allyl chloride	mg/kg	0.1		-	-	-	-	<1.0↑
trans-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	<1.0↑
1,1-dichloroethane	mg/kg	0.1		-	-	-	-	<1.0↑
cis-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	<1.0↑
Bromochloromethane	mg/kg	0.1		-	-	-	-	<1.0↑
1,2-dichloroethane	mg/kg	0.1		-	-	-	-	<1.0↑
1,1,1-trichloroethane	mg/kg	0.1		-	-	-	-	<1.0↑
1,1-dichloropropene	mg/kg	0.1		-	-	-	-	<1.0↑
Carbon tetrachloride	mg/kg	0.1		-	-	-	-	<1.0↑
Dibromomethane	mg/kg	0.1		-	-	-	-	<1.0↑
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	-	-	-	<1.0↑
1,1,2-trichloroethane	mg/kg	0.1		-	-	-	-	<1.0↑
1,3-dichloropropane	mg/kg	0.1		-	-	-	-	<1.0↑
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	-	-	-	<1.0↑
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	<1.0↑
cis-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	<10↑
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	<1.0↑

Parameter	Units	LOR	Sample Number: SE100700.016 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
VOC's in Soil Method: AN433/AN434 (continued)							
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	-	<1.0↑
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	<10↑
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	-	<1.0↑
Hexachlorobutadiene	mg/kg	0.1	-	-	-	-	<1.0↑
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
Bromobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
2-chlorotoluene	mg/kg	0.1	-	-	-	-	<1.0↑
4-chlorotoluene	mg/kg	0.1	-	-	-	-	<1.0↑
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	-	<1.0↑
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	-	-	-	-	<1.0↑
Toluene	mg/kg	0.1	-	-	-	-	<1.0↑
Ethylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
m/p-xylene	mg/kg	0.2	-	-	-	-	<2.0↑
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	-	<1.0↑
o-xylene	mg/kg	0.1	-	-	-	-	<1.0↑
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	-	<1.0↑
n-propylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
tert-butylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
sec-butylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	<1.0↑
n-butylbenzene	mg/kg	0.1	-	-	-	-	<1.0↑

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
VOC's in Soil Method: AN433/AN434 (continued)							
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	-	-	-	-	<1.0↑
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	-	-	-	-	<100↑
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	-	-	<5.0↑
Vinyl acetate	mg/kg	10	-	-	-	-	<100↑
MEK (2-butanone)	mg/kg	10	-	-	-	-	<100↑
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	-	<10↑
2-hexanone (MBK)	mg/kg	5	-	-	-	-	<50↑
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	-	-	-	-	**1.5**
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	-	-	-	-	<5.0↑
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	**103**
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	**116**
d8-toluene (Surrogate)	%	-	-	-	-	-	**96**
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	**89**
Totals							
Total Xylenes*	mg/kg	0.3	-	-	-	-	<3.0↑
Total BTEX*	mg/kg	-	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	-	-	-	-	<1.0↑
Bromodichloromethane	mg/kg	0.1	-	-	-	-	<1.0↑
Chlorodibromomethane	mg/kg	0.1	-	-	-	-	<1.0↑
Bromoform	mg/kg	0.1	-	-	-	-	<1.0↑
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	-	-	-	<20
Benzene	mg/kg	0.1	<0.1	-	-	-	-
Toluene	mg/kg	0.1	<0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	<0.1	-	-	-	-
m/p-xylene	mg/kg	1	<1	-	-	-	-
o-xylene	mg/kg	0.5	<0.5	-	-	-	-
Total Xylenes	mg/kg	0.3	<0.3	-	-	-	-
Total BTEX*	mg/kg	2.7	<2.7	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**77**	-	-	-	**92**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	-	-	-	**22**
TRH C15-C28	mg/kg	50	<50	-	-	-	**1100**
TRH C29-C36	mg/kg	50	<50	-	-	-	**510**
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	<0.1	-	<0.1	-	**5.0**
Acenaphthylene	mg/kg	0.1	<0.1	-	<0.1	-	**0.6**
Acenaphthene	mg/kg	0.1	<0.1	-	<0.1	-	**7.3**
Fluorene	mg/kg	0.1	<0.1	-	<0.1	-	**9.0**
Phenanthrene	mg/kg	0.1	<0.1	-	<0.1	-	**52**
Anthracene	mg/kg	0.1	<0.1	-	<0.1	-	**17**
Fluoranthene	mg/kg	0.1	<0.1	-	<0.1	-	**51**
Pyrene	mg/kg	0.1	<0.1	-	<0.1	-	**51**
Benzo(a)anthracene	mg/kg	0.1	<0.1	-	<0.1	-	**30**
Chrysene	mg/kg	0.1	<0.1	-	<0.1	-	**17**
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	-	<0.1	-	**24**
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	<0.1	-	**10**
Benzo(a)pyrene	mg/kg	0.05	<0.05	-	<0.05	-	**20**
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	<0.1	-	**8.8**
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	<0.1	-	**2.4**
Benzo(ghi)perylene	mg/kg	0.1	<0.1	-	<0.1	-	**9.6**
Total PAH	mg/kg	1.75	<1.8↑	-	<1.8↑	-	**280**
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**100**	-	**109**	-	**107**
2-fluorobiphenyl (Surrogate)	%	-	**89**	-	**96**	-	**120**
d14-p-terphenyl (Surrogate)	%	-	**83**	-	**81**	-	**98**
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	-	-	-	-	-
Acenaphthylene	mg/kg	0.5	-	-	-	-	-
Anthracene	mg/kg	0.5	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	-	-	-	-
Chrysene	mg/kg	0.5	-	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	-	-	-	-
Fluoranthene	mg/kg	0.5	-	-	-	-	-
Fluorene	mg/kg	0.5	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	-	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	-	-	-	-
Naphthalene	mg/kg	0.5	-	-	-	-	-
Phenanthrene	mg/kg	0.5	-	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
Full 8270 SVOC in Soil Method: AN420 (continued)							
OCs							
Aldrin	mg/kg	0.5	-	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-	-
Dimethoate	mg/kg	1	-	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-	-
EPN*	mg/kg	1	-	-	-	-	-
Ethion	mg/kg	1	-	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-	-
Phorate	mg/kg	1	-	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-	-
Pirimiphos-methyl	mg/kg	1	-	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.016 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
Full 8270 SVOC in Soil Method: AN420 (continued)							
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-	-
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	-	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	-	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.016 Sample Matrix: Soil Sample Date: 09 Jun 2011 Sample Name: BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenacetin	mg/kg	1	-	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	-	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	-	-	-	-
Dibenzofuran	mg/kg	0.5	-	-	-	-	-
Benzyl alcohol	mg/kg	1	-	-	-	-	-
Safrole	mg/kg	0.5	-	-	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	-	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	-	-	-	-
Thionazin	mg/kg	1	-	-	-	-	-
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	-	-	-	-
2-chlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	-	-	-	-
2-nitrophenol	mg/kg	0.5	-	-	-	-	-
Phenol	mg/kg	0.5	-	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	-	-	-	-
Pentachlorophenol	mg/kg	0.5	-	-	-	-	-
4-nitrophenol	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
Full 8270 SVOC in Soil Method: AN420 (continued)							
Surrogates							
d5-phenol (Surrogate)	%	-	-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Field pH for Acid Sulphate Soil Method: AN104							
PHf	pH Units	-	**7.2**	**5.8**	-	-	-
PHfox	pH Units	-	**5.9**	**5.1**	-	-	-
Reaction*	No unit	-	XXX	XXX	-	-	-
pH Difference*	pH Units	-10	**1.4**	**0.7**	-	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	**25**	-	**3**	-	**4**
Cadmium, Cd	mg/kg	0.3	**0.6**	-	<0.3	-	<0.3
Chromium, Cr	mg/kg	0.3	**13**	-	**13**	-	**11**
Copper, Cu	mg/kg	0.5	**1.2**	-	**16**	-	**44**
Lead, Pb	mg/kg	1	**12**	-	**12**	-	**260**
Nickel, Ni	mg/kg	0.5	**1.3**	-	**13**	-	**7.7**
Zinc, Zn	mg/kg	0.5	**7.9**	-	**22**	-	**72**
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	<0.05	-	<0.05	-	**0.13**
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	-	-	-	No
Moisture Content Method: AN234							
% Moisture	%	0.5	**18**	**24**	**21**	-	**8.9**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	<0.04	-
Benzene	µg/L	0.5	-	-	-	<0.5	-
Toluene	µg/L	0.5	-	-	-	<0.5	-
Ethylbenzene	µg/L	0.5	-	-	-	<0.5	-
m/p-xylene	µg/L	1	-	-	-	<1	-
o-xylene	µg/L	0.5	-	-	-	<0.5	-
Total BTEX*	µg/L	3	-	-	-	<3	-
Total Xylenes*	µg/L	1.5	-	-	-	<2↑	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	**78**	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.016 Soil 09 Jun 2011 BH6 6.0	SE100700.017 Soil 09 Jun 2011 BH6 9.5	SE100700.018 Soil 09 Jun 2011 BH6 14.0	SE100700.019 Water 09 Jun 2011 QC08	SE100700.020 Soil 10 Jun 2011 BH10 1.1-1.3
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403								
TRH C10-C14	µg/L	100		-	-	-	<100	-
TRH C15-C28	µg/L	200		-	-	-	<200	-
TRH C29-C36	µg/L	200		-	-	-	<200	-
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420								
Naphthalene	µg/L	0.1		-	-	-	<0.1	-
Acenaphthylene	µg/L	0.1		-	-	-	<0.1	-
Acenaphthene	µg/L	0.1		-	-	-	<0.1	-
Fluorene	µg/L	0.1		-	-	-	<0.1	-
Phenanthrene	µg/L	0.1		-	-	-	<0.1	-
Anthracene	µg/L	0.1		-	-	-	<0.1	-
Fluoranthene	µg/L	0.1		-	-	-	<0.1	-
Pyrene	µg/L	0.1		-	-	-	<0.1	-
Benzo(a)anthracene	µg/L	0.1		-	-	-	<0.1	-
Chrysene	µg/L	0.1		-	-	-	<0.1	-
Benzo(b)fluoranthene	µg/L	0.1		-	-	-	<0.1	-
Benzo(k)fluoranthene	µg/L	0.1		-	-	-	<0.1	-
Benzo(a)pyrene	µg/L	0.1		-	-	-	<0.1	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1		-	-	-	<0.1	-
Dibenzo(a&h)anthracene	µg/L	0.1		-	-	-	<0.1	-
Benzo(ghi)perylene	µg/L	0.1		-	-	-	<0.1	-
Total PAH (18)*	µg/L	1		-	-	-	<1	-
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	-	-	**101**	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	**99**	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	**75**	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318								
Arsenic, As	µg/L	1		-	-	-	<1	-
Cadmium, Cd	µg/L	0.1		-	-	-	<0.1	-
Chromium, Cr	µg/L	1		-	-	-	<1	-
Copper, Cu	µg/L	1		-	-	-	<1	-
Lead, Pb	µg/L	1		-	-	-	<1	-
Nickel, Ni	µg/L	1		-	-	-	<1	-
Zinc, Zn	µg/L	1		-	-	-	**65**	-
Mercury (dissolved) in Water Method: AN311/AN312								
Mercury	mg/L	0.0001		-	-	-	<0.0001	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	-	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	-	-	-	-
Chloromethane	mg/kg	1		-	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	-	-	-	-
Bromomethane	mg/kg	1		-	-	-	-	-
Chloroethane	mg/kg	1		-	-	-	-	-
Trichlorofluoromethane	mg/kg	1		-	-	-	-	-
Iodomethane	mg/kg	5		-	-	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	-	-	-	-
Allyl chloride	mg/kg	0.1		-	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	-	-	-	-
Bromochloromethane	mg/kg	0.1		-	-	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	-	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	-	-	-	-
Dibromomethane	mg/kg	0.1		-	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	-	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1		-	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1		-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1		-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1		-	-	-	-	-
Halogenated Aromatics								
Chlorobenzene	mg/kg	0.1		-	-	-	-	-
Bromobenzene	mg/kg	0.1		-	-	-	-	-
2-chlorotoluene	mg/kg	0.1		-	-	-	-	-
4-chlorotoluene	mg/kg	0.1		-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1		-	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1		-	-	-	-	-
Monocyclic Aromatic Hydrocarbons								
Benzene	mg/kg	0.1		-	-	-	-	-
Toluene	mg/kg	0.1		-	-	-	-	-
Ethylbenzene	mg/kg	0.1		-	-	-	-	-
m/p-xylene	mg/kg	0.2		-	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1		-	-	-	-	-
o-xylene	mg/kg	0.1		-	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1		-	-	-	-	-
n-propylbenzene	mg/kg	0.1		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
VOC's in Soil Method: AN433/AN434 (continued)							
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-	-
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	-	-	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	-	-	-
Vinyl acetate	mg/kg	10	-	-	-	-	-
MEK (2-butanone)	mg/kg	10	-	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	-	-
2-hexanone (MBK)	mg/kg	5	-	-	-	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	-	-	-	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	-	-	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
Totals							
Total Xylenes*	mg/kg	0.3	-	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	-	-	-	-	-
Bromodichloromethane	mg/kg	0.1	-	-	-	-	-
Chlorodibromomethane	mg/kg	0.1	-	-	-	-	-
Bromoform	mg/kg	0.1	-	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	<20	<20	-	-
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
m/p-xylene	mg/kg	1	<1	<1	<1	-	-
o-xylene	mg/kg	0.5	<0.5	<0.5	<0.5	-	-
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	-	-
Total BTEX*	mg/kg	2.7	<2.7	<2.7	<2.7	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)								
Surrogates								
Trifluorotoluene (Surrogate)	%	-		**72**	**76**	**71**	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403								
TRH C10-C14	mg/kg	20		<20	<20	<20	-	-
TRH C15-C28	mg/kg	50		**590**	<50	**120**	-	-
TRH C29-C36	mg/kg	50		**220**	<50	**52**	-	-
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420								
Naphthalene	mg/kg	0.1		-	<0.1	**0.7**	-	<0.1
Acenaphthylene	mg/kg	0.1		-	<0.1	<0.1	-	**0.1**
Acenaphthene	mg/kg	0.1		-	<0.1	**1.0**	-	<0.1
Fluorene	mg/kg	0.1		-	<0.1	**1.2**	-	<0.1
Phenanthrene	mg/kg	0.1		-	**0.1**	**6.7**	-	**0.5**
Anthracene	mg/kg	0.1		-	<0.1	**2.3**	-	**0.2**
Fluoranthene	mg/kg	0.1		-	**0.2**	**6.0**	-	**1.1**
Pyrene	mg/kg	0.1		-	**0.1**	**5.6**	-	**1.2**
Benzo(a)anthracene	mg/kg	0.1		-	<0.1	**3.2**	-	**0.8**
Chrysene	mg/kg	0.1		-	<0.1	**1.7**	-	**0.4**
Benzo(b)fluoranthene	mg/kg	0.1		-	<0.1	**2.8**	-	**0.8**
Benzo(k)fluoranthene	mg/kg	0.1		-	<0.1	**0.8**	-	**0.3**
Benzo(a)pyrene	mg/kg	0.05		-	<0.05	**2.1**	-	**0.63**
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		-	<0.1	**0.9**	-	**0.3**
Dibenzo(a&h)anthracene	mg/kg	0.1		-	<0.1	**0.2**	-	<0.1
Benzo(ghi)perylene	mg/kg	0.1		-	<0.1	**0.9**	-	**0.3**
Total PAH	mg/kg	1.75		-	<1.8↑	**32**	-	**5.6**
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	**110**	**101**	-	**88**
2-fluorobiphenyl (Surrogate)	%	-		-	**97**	**104**	-	**82**
d14-p-terphenyl (Surrogate)	%	-		-	**83**	**87**	-	**84**
Full 8270 SVOC in Soil Method: AN420								
PAHs								
Acenaphthene	mg/kg	0.5		-	-	-	-	-
Acenaphthylene	mg/kg	0.5		-	-	-	-	-
Anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.5		-	-	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1		-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5		-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5		-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.5		-	-	-	-	-
Chrysene	mg/kg	0.5		-	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5		-	-	-	-	-
Fluoranthene	mg/kg	0.5		-	-	-	-	-
Fluorene	mg/kg	0.5		-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5		-	-	-	-	-
1-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
2-methylnaphthalene	mg/kg	0.5		-	-	-	-	-
Naphthalene	mg/kg	0.5		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.021 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenanthrene	mg/kg	0.5	-	-	-	-	-
Pyrene	mg/kg	0.5	-	-	-	-	-
2-acetylamino fluorene	mg/kg	2	-	-	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	-	-	-	-
3-methylcholanthrene	mg/kg	1	-	-	-	-	-
OCs							
Aldrin	mg/kg	0.5	-	-	-	-	-
Alpha-BHC	mg/kg	0.5	-	-	-	-	-
Beta-BHC	mg/kg	0.5	-	-	-	-	-
Delta-BHC	mg/kg	0.5	-	-	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	-	-	-	-
p,p-DDD	mg/kg	0.5	-	-	-	-	-
p,p-DDE	mg/kg	0.5	-	-	-	-	-
p,p-DDT	mg/kg	0.5	-	-	-	-	-
Dieldrin	mg/kg	0.5	-	-	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	-	-	-	-
Beta-endosulfan	mg/kg	0.5	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	-	-	-	-
Endrin	mg/kg	0.5	-	-	-	-	-
Heptachlor	mg/kg	0.5	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	-	-	-	-
Isodrin	mg/kg	0.5	-	-	-	-	-
Methoxychlor	mg/kg	0.5	-	-	-	-	-
Mirex	mg/kg	0.5	-	-	-	-	-
Alpha-chlordane	mg/kg	0.5	-	-	-	-	-
Gamma-chlordane	mg/kg	0.5	-	-	-	-	-
Endrin ketone	mg/kg	0.5	-	-	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	-	-	-	-
Bromophos ethyl	mg/kg	1	-	-	-	-	-
Carbophenothion	mg/kg	1	-	-	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	-	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	-	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	-	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	-	-	-	-
Dichlorvos	mg/kg	1	-	-	-	-	-
Demeton-S-methyl	mg/kg	1	-	-	-	-	-
Dimethoate	mg/kg	1	-	-	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	-	-	-	-
EPN*	mg/kg	1	-	-	-	-	-
Ethion	mg/kg	1	-	-	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	-	-	-	-
Famphur (Famophos)	mg/kg	1	-	-	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	-	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	-	-	-	-
Fenitrothion	mg/kg	1	-	-	-	-	-
Fenthion	mg/kg	1	-	-	-	-	-
Malathion (Maldison)	mg/kg	1	-	-	-	-	-
Methidathion	mg/kg	1	-	-	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	-	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	-	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	-	-	-	-
Parathion methyl	mg/kg	1	-	-	-	-	-
Phorate	mg/kg	1	-	-	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.021 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Pirimiphos-methyl	mg/kg	1	-	-	-	-	-
Profenofos	mg/kg	1	-	-	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	-	-	-	-
Sulfotepp	mg/kg	1	-	-	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	-	-	-	-
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	-	-	-	-
PCB Congener C52	mg/kg	0.5	-	-	-	-	-
PCB Congener C101	mg/kg	0.5	-	-	-	-	-
PCB Congener C118	mg/kg	0.5	-	-	-	-	-
PCB Congener C138	mg/kg	0.5	-	-	-	-	-
PCB Congener C153	mg/kg	0.5	-	-	-	-	-
PCB Congener C180	mg/kg	0.5	-	-	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	-	-	-	-
Hexachloroethane	mg/kg	0.5	-	-	-	-	-
Hexachloroproprene	mg/kg	0.5	-	-	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	-	-	-	-
Pentachloroethane	mg/kg	0.5	-	-	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	-	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	-	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	-	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	-	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	-	-	-	-
Diethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	-	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	-	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	-	-	-	-	-
Carbaryl	mg/kg	0.5	-	-	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	-	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	-	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	-	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	-	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	-	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	-	-	-	-
4-amino biphenyl	mg/kg	1	-	-	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	-	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	-	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	-	-	-	-
Isophorone	mg/kg	0.5	-	-	-	-	-
Nitrobenzene	mg/kg	0.5	-	-	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	-	-	-	-
Phenacetin	mg/kg	1	-	-	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	-	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	-	-	-	-	-
4-chloroaniline	mg/kg	1	-	-	-	-	-
2-nitroaniline	mg/kg	1	-	-	-	-	-
3-nitroaniline	mg/kg	1	-	-	-	-	-
4-nitroaniline	mg/kg	1	-	-	-	-	-
Diphenylamine	mg/kg	0.5	-	-	-	-	-
o-toluidine	mg/kg	1	-	-	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	-	-	-	-
1-naphthylamine	mg/kg	1	-	-	-	-	-
2-naphthylamine	mg/kg	1	-	-	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	-	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	-	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Full 8270 SVOC in Soil Method: AN420 (continued)								
Other SVOCs								
Methyl methanesulfonate	mg/kg	1		-	-	-	-	-
Ethyl methanesulfonate	mg/kg	1		-	-	-	-	-
Dibenzofuran	mg/kg	0.5		-	-	-	-	-
Benzyl alcohol	mg/kg	1		-	-	-	-	-
Safrole	mg/kg	0.5		-	-	-	-	-
Isosafrole Isomer 1	mg/kg	1		-	-	-	-	-
Isosafrole Isomer 2	mg/kg	1		-	-	-	-	-
1,4-naphthoquinone	mg/kg	0.5		-	-	-	-	-
Thionazin	mg/kg	1		-	-	-	-	-
Speciated Routine Phenols								
3/4-methyl phenol (m/p-cresol)	mg/kg	1		-	-	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5		-	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5		-	-	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1		-	-	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5		-	-	-	-	-
4-chloro-3-methylphenol	mg/kg	1		-	-	-	-	-
2-chlorophenol	mg/kg	0.5		-	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5		-	-	-	-	-
2,4-dimethyl phenol	mg/kg	0.5		-	-	-	-	-
2-nitrophenol	mg/kg	0.5		-	-	-	-	-
Phenol	mg/kg	0.5		-	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5		-	-	-	-	-
Pentachlorophenol	mg/kg	0.5		-	-	-	-	-
4-nitrophenol	mg/kg	0.5		-	-	-	-	-
Surrogates								
d5-phenol (Surrogate)	%	-		-	-	-	-	-
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-		-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-	-
Field pH for Acid Sulphate Soil Method: AN104								
PHf	pH Units	-		-	**6.8**	-	**6.7**	-
PHfox	pH Units	-		-	**6.5**	-	**4.9**	-
Reaction*	No unit	-		-	X	-	X	-
pH Difference*	pH Units	-10		-	**0.3**	-	**1.9**	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3		-	**8**	**4**	-	**5**
Cadmium, Cd	mg/kg	0.3		-	<0.3	<0.3	-	<0.3
Chromium, Cr	mg/kg	0.3		-	**13**	**13**	-	**13**
Copper, Cu	mg/kg	0.5		-	**4.9**	**35**	-	**13**
Lead, Pb	mg/kg	1		-	**19**	**150**	-	**34**
Nickel, Ni	mg/kg	0.5		-	**1.2**	**4.7**	-	**9.3**
Zinc, Zn	mg/kg	0.5		-	**18**	**110**	-	**83**

Parameter	Units	LOR	Sample Number: SE100700.021 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	-	<0.05	**0.22**	-	**0.10**
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	-	No	-	-	No
Moisture Content Method: AN234							
% Moisture	%	0.5	**13**	**17**	**16**	**16**	**9.9**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	mg/L	0.04	-	-	-	-	-
Benzene	µg/L	0.5	-	-	-	-	-
Toluene	µg/L	0.5	-	-	-	-	-
Ethylbenzene	µg/L	0.5	-	-	-	-	-
m/p-xylene	µg/L	1	-	-	-	-	-
o-xylene	µg/L	0.5	-	-	-	-	-
Total BTEX*	µg/L	3	-	-	-	-	-
Total Xylenes*	µg/L	1.5	-	-	-	-	-
Surrogates							
Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.021 Soil 10 Jun 2011 BH10 2.0	SE100700.022 Soil 10 Jun 2011 BH10 3.0	SE100700.023 Soil 10 Jun 2011 BH10 4.0	SE100700.024 Soil 10 Jun 2011 BH10 8.0	SE100700.025 Soil 10 Jun 2011 BH12 0.5
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 (continued)								
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318								
Arsenic, As	µg/L	1		-	-	-	-	-
Cadmium, Cd	µg/L	0.1		-	-	-	-	-
Chromium, Cr	µg/L	1		-	-	-	-	-
Copper, Cu	µg/L	1		-	-	-	-	-
Lead, Pb	µg/L	1		-	-	-	-	-
Nickel, Ni	µg/L	1		-	-	-	-	-
Zinc, Zn	µg/L	1		-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312								
Mercury	mg/L	0.0001		-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.026 Soil 10 Jun 2011 BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	<0.1	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	<1	-	-	-
Chloromethane	mg/kg	1		-	<1	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	<0.1	-	-	-
Bromomethane	mg/kg	1		-	<1	-	-	-
Chloroethane	mg/kg	1		-	<1	-	-	-
Trichlorofluoromethane	mg/kg	1		-	<1	-	-	-
Iodomethane	mg/kg	5		-	<5	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	<0.5	-	-	-
Allyl chloride	mg/kg	0.1		-	<0.1	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
Bromochloromethane	mg/kg	0.1		-	<0.1	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	<0.1	-	-	-
Dibromomethane	mg/kg	0.1		-	<0.1	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	<0.1	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	<0.1	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	<1	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.026 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
VOC's in Soil Method: AN433/AN434 (continued)							
1,2,3-trichloropropane	mg/kg	0.1	-	<0.1	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	<1	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	<0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	-	<0.1	-	-	-
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
Bromobenzene	mg/kg	0.1	-	<0.1	-	-	-
2-chlorotoluene	mg/kg	0.1	-	<0.1	-	-	-
4-chlorotoluene	mg/kg	0.1	-	<0.1	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	<0.1	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	-	<0.1	-	-	-
Toluene	mg/kg	0.1	-	<0.1	-	-	-
Ethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
m/p-xylene	mg/kg	0.2	-	<0.2	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	<0.1	-	-	-
o-xylene	mg/kg	0.1	-	<0.1	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	<0.1	-	-	-
n-propylbenzene	mg/kg	0.1	-	<0.1	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
tert-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
sec-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	<0.1	-	-	-
n-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.026 Soil 10 Jun 2011 BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
VOC's in Soil Method: AN433/AN434 (continued)								
Nitrogenous Compounds								
Acrylonitrile	mg/kg	0.1		-	<0.1	-	-	-
Oxygenated Compounds								
Acetone (2-propanone)	mg/kg	10		-	<10	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5		-	<0.5	-	-	-
Vinyl acetate	mg/kg	10		-	<10	-	-	-
MEK (2-butanone)	mg/kg	10		-	<10	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1		-	<1	-	-	-
2-hexanone (MBK)	mg/kg	5		-	<5	-	-	-
Polycyclic VOCs								
Naphthalene	mg/kg	0.1		-	<0.1	-	-	-
Sulphonated Compounds								
Carbon disulfide	mg/kg	0.5		-	<0.5	-	-	-
Surrogates								
Dibromofluoromethane (Surrogate)	%	-		-	**87**	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	**103**	-	-	-
d8-toluene (Surrogate)	%	-		-	**98**	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	**86**	-	-	-
Totals								
Total Xylenes*	mg/kg	0.3		-	<0.3	-	-	-
Total BTEX*	mg/kg	-		-	-	-	-	-
Total VOC*	mg/kg	24		-	-	-	-	-
Trihalomethanes								
Chloroform	mg/kg	0.1		-	<0.1	-	-	-
Bromodichloromethane	mg/kg	0.1		-	<0.1	-	-	-
Chlorodibromomethane	mg/kg	0.1		-	<0.1	-	-	-
Bromoform	mg/kg	0.1		-	<0.1	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434								
TRH C6-C9	mg/kg	20		<20	<20	<20	-	-
Benzene	mg/kg	0.1		<0.1	-	<0.1	-	-
Toluene	mg/kg	0.1		<0.1	-	<0.1	-	-
Ethylbenzene	mg/kg	0.1		<0.1	-	<0.1	-	-
m/p-xylene	mg/kg	1		<1	-	<1	-	-
o-xylene	mg/kg	0.5		<0.5	-	<0.5	-	-
Total Xylenes	mg/kg	0.3		<0.3	-	<0.3	-	-
Total BTEX*	mg/kg	2.7		<2.7	-	<2.7	-	-
Surrogates								
Trifluorotoluene (Surrogate)	%	-		**71**	**63**	**66**	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.026 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	<20	<20	-	-
TRH C15-C28	mg/kg	50	**190**	**130**	<50	-	-
TRH C29-C36	mg/kg	50	**150**	**100**	<50	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	**0.4**	**0.3**	<0.1	<0.1	-
Acenaphthylene	mg/kg	0.1	**0.7**	**0.4**	<0.1	<0.1	-
Acenaphthene	mg/kg	0.1	**0.6**	**0.4**	<0.1	<0.1	-
Fluorene	mg/kg	0.1	**0.6**	**0.3**	<0.1	<0.1	-
Phenanthrene	mg/kg	0.1	**3.2**	**1.7**	<0.1	<0.1	-
Anthracene	mg/kg	0.1	**1.3**	**0.5**	<0.1	<0.1	-
Fluoranthene	mg/kg	0.1	**3.9**	**2.5**	**0.1**	<0.1	-
Pyrene	mg/kg	0.1	**6.3**	**3.8**	**0.2**	<0.1	-
Benzo(a)anthracene	mg/kg	0.1	**3.9**	**2.3**	<0.1	<0.1	-
Chrysene	mg/kg	0.1	**2.0**	**1.2**	<0.1	<0.1	-
Benzo(b)fluoranthene	mg/kg	0.1	**3.7**	**2.5**	<0.1	<0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	**1.1**	**0.8**	<0.1	<0.1	-
Benzo(a)pyrene	mg/kg	0.05	**3.2**	**1.9**	<0.05	<0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**1.4**	**0.8**	<0.1	<0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	**0.3**	**0.2**	<0.1	<0.1	-
Benzo(ghi)perylene	mg/kg	0.1	**1.7**	**0.9**	<0.1	<0.1	-
Total PAH	mg/kg	1.75	**29**	**17**	<1.8↑	<1.8↑	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**109**	**84**	**107**	**105**	-
2-fluorobiphenyl (Surrogate)	%	-	**112**	**88**	**96**	**96**	-
d14-p-terphenyl (Surrogate)	%	-	**88**	**92**	**83**	**84**	-
Full 8270 SVOC in Soil Method: AN420							
PAHs							
Acenaphthene	mg/kg	0.5	-	**0.9**	-	-	-
Acenaphthylene	mg/kg	0.5	-	<0.5	-	-	-
Anthracene	mg/kg	0.5	-	**1.2**	-	-	-
Benzo(a)anthracene	mg/kg	0.5	-	**3.8**	-	-	-
Benzo(b&k)fluoranthene	mg/kg	1	-	**8**	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.5	-	**2.0**	-	-	-
Benzo(a)pyrene	mg/kg	0.5	-	**5.2**	-	-	-
Chrysene	mg/kg	0.5	-	**3.8**	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.5	-	<0.5	-	-	-
Fluoranthene	mg/kg	0.5	-	**6.3**	-	-	-
Fluorene	mg/kg	0.5	-	**0.7**	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	**2.1**	-	-	-
1-methylnaphthalene	mg/kg	0.5	-	<0.5	-	-	-
2-methylnaphthalene	mg/kg	0.5	-	<0.5	-	-	-
Naphthalene	mg/kg	0.5	-	**0.6**	-	-	-
Phenanthrene	mg/kg	0.5	-	**3.9**	-	-	-
Pyrene	mg/kg	0.5	-	**9.8**	-	-	-
2-acetylamino fluorene	mg/kg	2	-	<2	-	-	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	-	<0.5	-	-	-
3-methylcholanthrene	mg/kg	1	-	<1	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.026 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
OCs							
Aldrin	mg/kg	0.5	-	<0.5	-	-	-
Alpha-BHC	mg/kg	0.5	-	<0.5	-	-	-
Beta-BHC	mg/kg	0.5	-	<0.5	-	-	-
Delta-BHC	mg/kg	0.5	-	<0.5	-	-	-
Gamma-BHC (Lindane)	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDD	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDE	mg/kg	0.5	-	<0.5	-	-	-
p,p-DDT	mg/kg	0.5	-	<0.5	-	-	-
Dieldrin	mg/kg	0.5	-	<0.5	-	-	-
Alpha-endosulfan	mg/kg	0.5	-	<0.5	-	-	-
Beta-endosulfan	mg/kg	0.5	-	<0.5	-	-	-
Endosulfan sulphate	mg/kg	0.5	-	<0.5	-	-	-
Endrin	mg/kg	0.5	-	<0.5	-	-	-
Heptachlor	mg/kg	0.5	-	<0.5	-	-	-
Heptachlor epoxide	mg/kg	0.5	-	<0.5	-	-	-
Isodrin	mg/kg	0.5	-	<0.5	-	-	-
Methoxychlor	mg/kg	0.5	-	<0.5	-	-	-
Mirex	mg/kg	0.5	-	<0.5	-	-	-
Alpha-chlordane	mg/kg	0.5	-	<0.5	-	-	-
Gamma-chlordane	mg/kg	0.5	-	<0.5	-	-	-
Endrin ketone	mg/kg	0.5	-	<0.5	-	-	-
OPs							
Azinphos-methyl (Guthion)	mg/kg	1	-	<1	-	-	-
Bromophos ethyl	mg/kg	1	-	<1	-	-	-
Carbophenothion	mg/kg	1	-	<1	-	-	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	-	<5	-	-	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	-	<1	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	-	<1	-	-	-
Chlorpyrifos-methyl	mg/kg	1	-	<1	-	-	-
Co-Ral (Coumaphos)	mg/kg	1	-	<1	-	-	-
Diazinon (Dimpylate)	mg/kg	1	-	<1	-	-	-
Dichlorvos	mg/kg	1	-	<1	-	-	-
Demeton-S-methyl	mg/kg	1	-	<1	-	-	-
Dimethoate	mg/kg	1	-	<1	-	-	-
Disulfoton (Di-syston)	mg/kg	1	-	<1	-	-	-
EPN*	mg/kg	1	-	<1	-	-	-
Ethion	mg/kg	1	-	<1	-	-	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	-	<1	-	-	-
Famphur (Famophos)	mg/kg	1	-	<1	-	-	-
Fenamiphos (Phenamiphos)	mg/kg	1	-	<1	-	-	-
Fenchlorophos (Ronnel)	mg/kg	1	-	<1	-	-	-
Fenitrothion	mg/kg	1	-	<1	-	-	-
Fenthion	mg/kg	1	-	<1	-	-	-
Malathion (Maldison)	mg/kg	1	-	<1	-	-	-
Methidathion	mg/kg	1	-	<1	-	-	-
Mevinphos-cis/trans	mg/kg	2	-	<2	-	-	-
o,o,o-triethyl phosphorothioate	mg/kg	1	-	<1	-	-	-
Parathion ethyl (Parathion)	mg/kg	1	-	<1	-	-	-
Parathion methyl	mg/kg	1	-	<1	-	-	-
Phorate	mg/kg	1	-	<1	-	-	-
Pirimiphos-ethyl	mg/kg	1	-	<1	-	-	-
Pirimiphos-methyl	mg/kg	1	-	<1	-	-	-
Profenofos	mg/kg	1	-	<1	-	-	-
Prothiophos (Tokuthion)*	mg/kg	1	-	<1	-	-	-
Sulfotepp	mg/kg	1	-	<1	-	-	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	-	<1	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.026 Soil 10 Jun 2011 BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
PCB UPAC(7) Congeners							
PCB Congener C28	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C52	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C101	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C118	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C138	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C153	mg/kg	0.5	-	<0.5	-	-	-
PCB Congener C180	mg/kg	0.5	-	<0.5	-	-	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)							
Hexachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,2-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,3-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1,4-dichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.5	-	-	-
Hexachlorocyclopentadiene	mg/kg	1	-	<1	-	-	-
Hexachloroethane	mg/kg	0.5	-	<0.5	-	-	-
Hexachloroproprene	mg/kg	0.5	-	<0.5	-	-	-
Pentachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
Pentachloroethane	mg/kg	0.5	-	<0.5	-	-	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	-	<1	-	-	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
1/2-Chloronaphthalene	mg/kg	1	-	<1	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.5	-	<0.5	-	-	-
Phthalates							
Bis(2-ethylhexyl)phthalate	mg/kg	5	-	<5	-	-	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5	-	<0.5	-	-	-
Butyl benzyl phthalate	mg/kg	0.5	-	<0.5	-	-	-
Di-n-butyl phthalate	mg/kg	0.5	-	<0.5	-	-	-
Diethyl phthalate	mg/kg	0.5	-	<0.5	-	-	-
Dimethyl phthalate	mg/kg	0.5	-	<0.5	-	-	-
Dioctyl phthalate	mg/kg	0.5	-	<0.5	-	-	-
Carbamates							
Carbofuran	mg/kg	0.5	-	<0.5	-	-	-
Carbaryl	mg/kg	0.5	-	<0.5	-	-	-
Herbicides (normal)							
Trifluralin	mg/kg	0.5	-	<0.5	-	-	-
Nitrosamines							
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5	-	<0.5	-	-	-
N-nitroso-diethylamine (NDEA)	mg/kg	1	-	<1	-	-	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5	-	<0.5	-	-	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5	-	<0.5	-	-	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5	-	<0.5	-	-	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1	-	<1	-	-	-
4-amino biphenyl	mg/kg	1	-	<1	-	-	-
Nitroaromatics and Ketones							
Acetophenone	mg/kg	0.5	-	<0.5	-	-	-
1,3-dinitrobenzene	mg/kg	1	-	<1	-	-	-
2,4-dinitrotoluene	mg/kg	0.5	-	<0.5	-	-	-
2,6-dinitrotoluene	mg/kg	0.5	-	<0.5	-	-	-
Isophorone	mg/kg	0.5	-	<0.5	-	-	-
Nitrobenzene	mg/kg	0.5	-	<0.5	-	-	-
p-(dimethylamino) azobenzene	mg/kg	1	-	<1	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.026 Soil 10 Jun 2011 BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
Full 8270 SVOC in Soil Method: AN420 (continued)							
Phenacetin	mg/kg	1	-	<1	-	-	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5	-	<0.5	-	-	-
Anilines and Amines							
Aniline	mg/kg	3	-	<3	-	-	-
4-chloroaniline	mg/kg	1	-	<1	-	-	-
2-nitroaniline	mg/kg	1	-	<1	-	-	-
3-nitroaniline	mg/kg	1	-	<1	-	-	-
4-nitroaniline	mg/kg	1	-	<1	-	-	-
Diphenylamine	mg/kg	0.5	-	<0.5	-	-	-
o-toluidine	mg/kg	1	-	<1	-	-	-
5-nitro-o-toluidine	mg/kg	1	-	<1	-	-	-
1-naphthylamine	mg/kg	1	-	<1	-	-	-
2-naphthylamine	mg/kg	1	-	<1	-	-	-
Haloethers							
Bis(2-chloroethoxy) methane	mg/kg	0.5	-	<0.5	-	-	-
Bis(2-chloroethyl) ether	mg/kg	0.5	-	<0.5	-	-	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5	-	<0.5	-	-	-
4-chlorophenyl phenyl ether	mg/kg	0.5	-	<0.5	-	-	-
4-bromophenyl phenyl ether	mg/kg	0.5	-	<0.5	-	-	-
Other SVOCs							
Methyl methanesulfonate	mg/kg	1	-	<1	-	-	-
Ethyl methanesulfonate	mg/kg	1	-	<1	-	-	-
Dibenzofuran	mg/kg	0.5	-	<0.5	-	-	-
Benzyl alcohol	mg/kg	1	-	<1	-	-	-
Safrole	mg/kg	0.5	-	<0.5	-	-	-
Isosafrole Isomer 1	mg/kg	1	-	<1	-	-	-
Isosafrole Isomer 2	mg/kg	1	-	<1	-	-	-
1,4-naphthoquinone	mg/kg	0.5	-	<0.5	-	-	-
Thionazin	mg/kg	1	-	<1	-	-	-
Speciated Routine Phenols							
3/4-methyl phenol (m/p-cresol)	mg/kg	1	-	<1	-	-	-
2-methyl phenol (o-cresol)	mg/kg	0.5	-	<0.5	-	-	-
2,6-dichlorophenol	mg/kg	0.5	-	<0.5	-	-	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	-	<1	-	-	-
2,4,5-trichlorophenol	mg/kg	0.5	-	<0.5	-	-	-
4-chloro-3-methylphenol	mg/kg	1	-	<1	-	-	-
2-chlorophenol	mg/kg	0.5	-	<0.5	-	-	-
2,4-dichlorophenol	mg/kg	0.5	-	<0.5	-	-	-
2,4-dimethyl phenol	mg/kg	0.5	-	<0.5	-	-	-
2-nitrophenol	mg/kg	0.5	-	<0.5	-	-	-
Phenol	mg/kg	0.5	-	<0.5	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5	-	<0.5	-	-	-
Pentachlorophenol	mg/kg	0.5	-	<0.5	-	-	-
4-nitrophenol	mg/kg	0.5	-	<0.5	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.026 Soil 10 Jun 2011 BH12 1.0	SE100700.027 Soil 10 Jun 2011 BH12 1.5	SE100700.028 Soil 10 Jun 2011 BH12 2.0	SE100700.029 Soil 10 Jun 2011 BH12 3.0	SE100700.030 Soil 10 Jun 2011 BH12 4.5
Full 8270 SVOC in Soil Method: AN420 (continued)								
Surrogates								
d5-phenol (Surrogate)	%	-		-	**85**	-	-	-
d5-nitrobenzene (Surrogate)	%	-		-	**88**	-	-	-
2-fluorobiphenyl (Surrogate)	%	-		-	**108**	-	-	-
2,4,6-tribromophenol (Surrogate)	%	-		-	**101**	-	-	-
d14-p-terphenyl (Surrogate)	%	-		-	**108**	-	-	-
Field pH for Acid Sulphate Soil Method: AN104								
PHf	pH Units	-		-	-	-	**6.2**	**7.9**
PHfox	pH Units	-		-	-	-	**4.2**	**2.7**
Reaction*	No unit	-		-	-	-	X	XXXX
pH Difference*	pH Units	-10		-	-	-	**2.1**	**5.2**
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3		<3	**6**	**5**	**8**	-
Cadmium, Cd	mg/kg	0.3		<0.3	**0.4**	<0.3	<0.3	-
Chromium, Cr	mg/kg	0.3		**13**	**14**	**11**	**16**	-
Copper, Cu	mg/kg	0.5		**39**	**36**	**3.8**	**5.1**	-
Lead, Pb	mg/kg	1		**31**	**240**	**24**	**13**	-
Nickel, Ni	mg/kg	0.5		**13**	**7.8**	**1.0**	**1.7**	-
Zinc, Zn	mg/kg	0.5		**64**	**92**	**380**	**520**	-
Mercury in Soil Method: AN312								
Mercury	mg/kg	0.05		**0.11**	**0.19**	<0.05	<0.05	-
Fibre Identification in soil Method: AN602								
FibreID								
Asbestos Detected	No unit	-		-	No	-	-	-
Moisture Content Method: AN234								
% Moisture	%	0.5		**5.5**	**11**	**20**	**18**	**21**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434								
TRH C6-C9	mg/L	0.04		-	-	-	-	-
Benzene	µg/L	0.5		-	-	-	-	-
Toluene	µg/L	0.5		-	-	-	-	-
Ethylbenzene	µg/L	0.5		-	-	-	-	-
m/p-xylene	µg/L	1		-	-	-	-	-
o-xylene	µg/L	0.5		-	-	-	-	-
Total BTEX*	µg/L	3		-	-	-	-	-
Total Xylenes*	µg/L	1.5		-	-	-	-	-
Surrogates								
Trifluorotoluene (Surrogate)	%	-		-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100700.026	SE100700.027	SE100700.028	SE100700.029	SE100700.030
			Sample Matrix: Soil	Soil	Soil	Soil	Soil
			Sample Date: 10 Jun 2011	10 Jun 2011	10 Jun 2011	10 Jun 2011	10 Jun 2011
			Sample Name: BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH12 4.5
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	-	-	-	-	-
TRH C15-C28	µg/L	200	-	-	-	-	-
TRH C29-C36	µg/L	200	-	-	-	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	-	-	-	-	-
Acenaphthylene	µg/L	0.1	-	-	-	-	-
Acenaphthene	µg/L	0.1	-	-	-	-	-
Fluorene	µg/L	0.1	-	-	-	-	-
Phenanthrene	µg/L	0.1	-	-	-	-	-
Anthracene	µg/L	0.1	-	-	-	-	-
Fluoranthene	µg/L	0.1	-	-	-	-	-
Pyrene	µg/L	0.1	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.1	-	-	-	-	-
Chrysene	µg/L	0.1	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-	-	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-	-	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-	-	-	-
Total PAH (18)*	µg/L	1	-	-	-	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318							
Arsenic, As	µg/L	1	-	-	-	-	-
Cadmium, Cd	µg/L	0.1	-	-	-	-	-
Chromium, Cr	µg/L	1	-	-	-	-	-
Copper, Cu	µg/L	1	-	-	-	-	-
Lead, Pb	µg/L	1	-	-	-	-	-
Nickel, Ni	µg/L	1	-	-	-	-	-
Zinc, Zn	µg/L	1	-	-	-	-	-
Mercury (dissolved) in Water Method: AN311/AN312							
Mercury	mg/L	0.0001	-	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100700.031 Soil 10 Jun 2011 QC09	SE100700.032 Soil 10 Jun 2011 QC10
VOC's in Soil Method: AN433/AN434				
Fumigants				
2,2-dichloropropane	mg/kg	0.1	<0.1	<1.0↑
1,2-dichloropropane	mg/kg	0.1	<0.1	<1.0↑
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<1.0↑
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<1.0↑
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<1.0↑
Halogenated Aliphatics				
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<10↑
Chloromethane	mg/kg	1	<1	<10↑
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.5↑
Bromomethane	mg/kg	1	<1	<5↑
Chloroethane	mg/kg	1	<1	<5↑
Trichlorofluoromethane	mg/kg	1	<1	<5↑
Iodomethane	mg/kg	5	<5	<50↑
1,1-dichloroethene	mg/kg	0.1	<0.1	<1.0↑
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<5.0↑
Allyl chloride	mg/kg	0.1	<0.1	<1.0↑
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<1.0↑
1,1-dichloroethane	mg/kg	0.1	<0.1	<1.0↑
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<1.0↑
Bromochloromethane	mg/kg	0.1	<0.1	<1.0↑
1,2-dichloroethane	mg/kg	0.1	<0.1	<1.0↑
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<1.0↑
1,1-dichloropropene	mg/kg	0.1	<0.1	<1.0↑
Carbon tetrachloride	mg/kg	0.1	<0.1	<1.0↑
Dibromomethane	mg/kg	0.1	<0.1	<1.0↑
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<1.0↑
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<1.0↑
1,3-dichloropropane	mg/kg	0.1	<0.1	<1.0↑
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<1.0↑
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<1.0↑
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<10↑
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<1.0↑
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<1.0↑
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<10↑
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<1.0↑
Hexachlorobutadiene	mg/kg	0.1	<0.1	<1.0↑
Halogenated Aromatics				
Chlorobenzene	mg/kg	0.1	<0.1	<1.0↑
Bromobenzene	mg/kg	0.1	<0.1	<1.0↑
2-chlorotoluene	mg/kg	0.1	<0.1	<1.0↑
4-chlorotoluene	mg/kg	0.1	<0.1	<1.0↑
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<1.0↑
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<1.0↑
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<1.0↑
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<1.0↑
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<1.0↑
Monocyclic Aromatic Hydrocarbons				
Benzene	mg/kg	0.1	<0.1	<1.0↑
Toluene	mg/kg	0.1	<0.1	<1.0↑
Ethylbenzene	mg/kg	0.1	<0.1	<1.0↑
m/p-xylene	mg/kg	0.2	<0.2	<2.0↑
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<1.0↑
o-xylene	mg/kg	0.1	<0.1	<1.0↑
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<1.0↑
n-propylbenzene	mg/kg	0.1	<0.1	<1.0↑

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
VOC's in Soil Method: AN433/AN434 (continued)				
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<1.0↑
tert-butylbenzene	mg/kg	0.1	<0.1	<1.0↑
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<1.0↑
sec-butylbenzene	mg/kg	0.1	<0.1	<1.0↑
p-isopropyltoluene	mg/kg	0.1	<0.1	<1.0↑
n-butylbenzene	mg/kg	0.1	<0.1	<1.0↑
Nitrogenous Compounds				
Acrylonitrile	mg/kg	0.1	<0.1	<1.0↑
Oxygenated Compounds				
Acetone (2-propanone)	mg/kg	10	<10	<100↑
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	<0.5	<5.0↑
Vinyl acetate	mg/kg	10	<10	<100↑
MEK (2-butanone)	mg/kg	10	<10	<100↑
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<10↑
2-hexanone (MBK)	mg/kg	5	<5	<50↑
Polycyclic VOCs				
Naphthalene	mg/kg	0.1	<0.1	**4.2**
Sulphonated Compounds				
Carbon disulfide	mg/kg	0.5	<0.5	<5.0↑
Surrogates				
Dibromofluoromethane (Surrogate)	%	-	**86**	**112**
d4-1,2-dichloroethane (Surrogate)	%	-	**103**	**123**
d8-toluene (Surrogate)	%	-	**100**	**88**
Bromofluorobenzene (Surrogate)	%	-	**85**	**94**
Totals				
Total Xylenes*	mg/kg	0.3	<0.3	<3.0↑
Total BTEX*	mg/kg	-	-	-
Total VOC*	mg/kg	24	-	-
Trihalomethanes				
Chloroform	mg/kg	0.1	<0.1	<1.0↑
Bromodichloromethane	mg/kg	0.1	<0.1	<1.0↑
Chlorodibromomethane	mg/kg	0.1	<0.1	<1.0↑
Bromoform	mg/kg	0.1	<0.1	<1.0↑
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434				
TRH C6-C9	mg/kg	20	<20	<20
Benzene	mg/kg	0.1	-	-
Toluene	mg/kg	0.1	-	-
Ethylbenzene	mg/kg	0.1	-	-
m/p-xylene	mg/kg	1	-	-
o-xylene	mg/kg	0.5	-	-
Total Xylenes	mg/kg	0.3	-	-
Total BTEX*	mg/kg	2.7	-	-

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)				
Surrogates				
Trifluorotoluene (Surrogate)	%	-	**68**	**75**
Dibromofluoromethane (Surrogate)	%	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-
d8-toluene (Surrogate)	%	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403				
TRH C10-C14	mg/kg	20	<20	<20
TRH C15-C28	mg/kg	50	**89**	**190**
TRH C29-C36	mg/kg	50	**54**	**93**
Surrogates				
TRH (Surrogate)	%	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420				
Naphthalene	mg/kg	0.1	**0.3**	**12**
Acenaphthylene	mg/kg	0.1	**0.4**	**0.8**
Acenaphthene	mg/kg	0.1	**0.4**	**21**
Fluorene	mg/kg	0.1	**0.3**	**23**
Phenanthrene	mg/kg	0.1	**2.0**	**120**
Anthracene	mg/kg	0.1	**0.7**	**38**
Fluoranthene	mg/kg	0.1	**2.9**	**97**
Pyrene	mg/kg	0.1	**4.4**	**91**
Benzo(a)anthracene	mg/kg	0.1	**2.6**	**57**
Chrysene	mg/kg	0.1	**1.4**	**26**
Benzo(b)fluoranthene	mg/kg	0.1	**3.0**	**38**
Benzo(k)fluoranthene	mg/kg	0.1	**0.8**	**9.9**
Benzo(a)pyrene	mg/kg	0.05	**2.2**	**30**
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**1.0**	**16**
Dibenzo(a&h)anthracene	mg/kg	0.1	**0.3**	**3.1**
Benzo(ghi)perylene	mg/kg	0.1	**1.1**	**18**
Total PAH	mg/kg	1.75	**20**	**550**
Surrogates				
d5-nitrobenzene (Surrogate)	%	-	**82**	**110**
2-fluorobiphenyl (Surrogate)	%	-	**90**	**120**
d14-p-terphenyl (Surrogate)	%	-	**94**	**110**
Full 8270 SVOC in Soil Method: AN420				
PAHs				
Acenaphthene	mg/kg	0.5	**1.0**	-
Acenaphthylene	mg/kg	0.5	**0.6**	-
Anthracene	mg/kg	0.5	**1.5**	-
Benzo(a)anthracene	mg/kg	0.5	**4.9**	-
Benzo(b&k)fluoranthene	mg/kg	1	**10**	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-
Benzo(ghi)perylene	mg/kg	0.5	**2.6**	-
Benzo(a)pyrene	mg/kg	0.5	**6.6**	-
Chrysene	mg/kg	0.5	**4.9**	-
Dibenzo(ah)anthracene	mg/kg	0.5	**0.7**	-
Fluoranthene	mg/kg	0.5	**7.8**	-
Fluorene	mg/kg	0.5	**0.8**	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	**2.6**	-
1-methylnaphthalene	mg/kg	0.5	<0.5	-
2-methylnaphthalene	mg/kg	0.5	<0.5	-
Naphthalene	mg/kg	0.5	**0.7**	-

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
Full 8270 SVOC in Soil Method: AN420 (continued)				
Phenanthrene	mg/kg	0.5	**4.8**	-
Pyrene	mg/kg	0.5	**12**	-
2-acetylamino fluorene	mg/kg	2	<2	-
7,12-dimethyl-benz(a)anthracene	mg/kg	0.5	<0.5	-
3-methylcholanthrene	mg/kg	1	<1	-
OCs				
Aldrin	mg/kg	0.5	<0.5	-
Alpha-BHC	mg/kg	0.5	<0.5	-
Beta-BHC	mg/kg	0.5	<0.5	-
Delta-BHC	mg/kg	0.5	<0.5	-
Gamma-BHC (Lindane)	mg/kg	0.5	<0.5	-
p,p-DDD	mg/kg	0.5	<0.5	-
p,p-DDE	mg/kg	0.5	<0.5	-
p,p-DDT	mg/kg	0.5	<0.5	-
Dieldrin	mg/kg	0.5	<0.5	-
Alpha-endosulfan	mg/kg	0.5	<0.5	-
Beta-endosulfan	mg/kg	0.5	<0.5	-
Endosulfan sulphate	mg/kg	0.5	<0.5	-
Endrin	mg/kg	0.5	<0.5	-
Heptachlor	mg/kg	0.5	<0.5	-
Heptachlor epoxide	mg/kg	0.5	<0.5	-
Isodrin	mg/kg	0.5	<0.5	-
Methoxychlor	mg/kg	0.5	<0.5	-
Mirex	mg/kg	0.5	<0.5	-
Alpha-chlordane	mg/kg	0.5	<0.5	-
Gamma-chlordane	mg/kg	0.5	<0.5	-
Endrin ketone	mg/kg	0.5	<0.5	-
OPs				
Azinphos-methyl (Guthion)	mg/kg	1	<1	-
Bromophos ethyl	mg/kg	1	<1	-
Carbophenothion	mg/kg	1	<1	-
Chlorfenvinphos-cis (Chlofenvinphos-cis)	mg/kg	5	<5	-
Chlorfenvinphos-trans (Chlofenvinphos-trans)	mg/kg	1	<1	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	1	<1	-
Chlorpyrifos-methyl	mg/kg	1	<1	-
Co-Ral (Coumaphos)	mg/kg	1	<1	-
Diazinon (Dimpylate)	mg/kg	1	<1	-
Dichlorvos	mg/kg	1	<1	-
Demeton-S-methyl	mg/kg	1	<1	-
Dimethoate	mg/kg	1	<1	-
Disulfoton (Di-syston)	mg/kg	1	<1	-
EPN*	mg/kg	1	<1	-
Ethion	mg/kg	1	<1	-
Ethoprophos (ethoprop or prophos)	mg/kg	1	<1	-
Famphur (Famophos)	mg/kg	1	<1	-
Fenamiphos (Phenamiphos)	mg/kg	1	<1	-
Fenchlorophos (Ronnel)	mg/kg	1	<1	-
Fenitrothion	mg/kg	1	<1	-
Fenthion	mg/kg	1	<1	-
Malathion (Maldison)	mg/kg	1	<1	-
Methidathion	mg/kg	1	<1	-
Mevinphos-cis/trans	mg/kg	2	<2	-
o,o,o-triethyl phosphorothioate	mg/kg	1	<1	-
Parathion ethyl (Parathion)	mg/kg	1	<1	-
Parathion methyl	mg/kg	1	<1	-
Phorate	mg/kg	1	<1	-
Pirimiphos-ethyl	mg/kg	1	<1	-

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
Full 8270 SVOC in Soil Method: AN420 (continued)				
Pirimiphos-methyl	mg/kg	1	<1	-
Profenofos	mg/kg	1	<1	-
Prothiophos (Tokuthion)*	mg/kg	1	<1	-
Sulfotepp	mg/kg	1	<1	-
Tetrachlorvinphos (Stirophos)*	mg/kg	1	<1	-
PCB UPAC(7) Congeners				
PCB Congener C28	mg/kg	0.5	<0.5	-
PCB Congener C52	mg/kg	0.5	<0.5	-
PCB Congener C101	mg/kg	0.5	<0.5	-
PCB Congener C118	mg/kg	0.5	<0.5	-
PCB Congener C138	mg/kg	0.5	<0.5	-
PCB Congener C153	mg/kg	0.5	<0.5	-
PCB Congener C180	mg/kg	0.5	<0.5	-
SVCH (Cl Benzenes, Hydrocarbons & VOCs)				
Hexachlorobenzene	mg/kg	0.5	<0.5	-
1,2-dichlorobenzene	mg/kg	0.5	<0.5	-
1,3-dichlorobenzene	mg/kg	0.5	<0.5	-
1,4-dichlorobenzene	mg/kg	0.5	<0.5	-
Hexachlorobutadiene	mg/kg	0.5	<0.5	-
Hexachlorocyclopentadiene	mg/kg	1	<1	-
Hexachloroethane	mg/kg	0.5	<0.5	-
Hexachloroproprene	mg/kg	0.5	<0.5	-
Pentachlorobenzene	mg/kg	0.5	<0.5	-
Pentachloroethane	mg/kg	0.5	<0.5	-
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	mg/kg	1	<1	-
1,2,3,4-tetrachlorobenzene	mg/kg	0.5	<0.5	-
1/2-Chloronaphthalene	mg/kg	1	<1	-
1,2,4-trichlorobenzene	mg/kg	0.5	<0.5	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.031 Soil 10 Jun 2011 QC09	SE100700.032 Soil 10 Jun 2011 QC10
Full 8270 SVOC in Soil **Method: AN420 (continued)**					
Phthalates					
Bis(2-ethylhexyl)phthalate	mg/kg	5		<5	-
Bis(2-ethylhexyl)adipate	mg/kg	0.5		<0.5	-
Butyl benzyl phthalate	mg/kg	0.5		<0.5	-
Di-n-butyl phthalate	mg/kg	0.5		<0.5	-
Diethyl phthalate	mg/kg	0.5		<0.5	-
Dimethyl phthalate	mg/kg	0.5		<0.5	-
Dioctyl phthalate	mg/kg	0.5		<0.5	-
Carbamates					
Carbofuran	mg/kg	0.5		<0.5	-
Carbaryl	mg/kg	0.5		<0.5	-
Herbicides (normal)					
Trifluralin	mg/kg	0.5		<0.5	-
Nitrosamines					
N-nitroso-di-n-butylamine (NDBA)	mg/kg	0.5		<0.5	-
N-nitroso-diethylamine (NDEA)	mg/kg	1		<1	-
N-nitroso-di-n-propylamine (NDPA)	mg/kg	0.5		<0.5	-
N-nitroso-morpholine (NMOR)	mg/kg	0.5		<0.5	-
N-nitroso-piperidine (NPIP)	mg/kg	0.5		<0.5	-
N-nitroso-pyrrolidine (NPYR)	mg/kg	1		<1	-
4-amino biphenyl	mg/kg	1		<1	-
Nitroaromatics and Ketones					
Acetophenone	mg/kg	0.5		<0.5	-
1,3-dinitrobenzene	mg/kg	1		<1	-
2,4-dinitrotoluene	mg/kg	0.5		<0.5	-
2,6-dinitrotoluene	mg/kg	0.5		<0.5	-
Isophorone	mg/kg	0.5		<0.5	-
Nitrobenzene	mg/kg	0.5		<0.5	-
p-(dimethylamino) azobenzene	mg/kg	1		<1	-
Phenacetin	mg/kg	1		<1	-
Pentachloronitrobenzene (quintozene)	mg/kg	0.5		<0.5	-
Anilines and Amines					
Aniline	mg/kg	3		<3	-
4-chloroaniline	mg/kg	1		<1	-
2-nitroaniline	mg/kg	1		<1	-
3-nitroaniline	mg/kg	1		<1	-
4-nitroaniline	mg/kg	1		<1	-
Diphenylamine	mg/kg	0.5		<0.5	-
o-toluidine	mg/kg	1		<1	-
5-nitro-o-toluidine	mg/kg	1		<1	-
1-naphthylamine	mg/kg	1		<1	-
2-naphthylamine	mg/kg	1		<1	-
Haloethers					
Bis(2-chloroethoxy) methane	mg/kg	0.5		<0.5	-
Bis(2-chloroethyl) ether	mg/kg	0.5		<0.5	-
Bis(2-chloroisopropyl) ether	mg/kg	0.5		<0.5	-
4-chlorophenyl phenyl ether	mg/kg	0.5		<0.5	-
4-bromophenyl phenyl ether	mg/kg	0.5		<0.5	-

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
Full 8270 SVOC in Soil Method: AN420 (continued)				
Other SVOCs				
Methyl methanesulfonate	mg/kg	1	<1	-
Ethyl methanesulfonate	mg/kg	1	<1	-
Dibenzofuran	mg/kg	0.5	<0.5	-
Benzyl alcohol	mg/kg	1	<1	-
Safrole	mg/kg	0.5	<0.5	-
Isosafrole Isomer 1	mg/kg	1	<1	-
Isosafrole Isomer 2	mg/kg	1	<1	-
1,4-naphthoquinone	mg/kg	0.5	<0.5	-
Thionazin	mg/kg	1	<1	-
Speciated Routine Phenols				
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	-
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	-
2,6-dichlorophenol	mg/kg	0.5	<0.5	-
2,3,4,6 and 2,3,5,6-tetrachlorophenol	mg/kg	1	<1	-
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	-
4-chloro-3-methylphenol	mg/kg	1	<1	-
2-chlorophenol	mg/kg	0.5	<0.5	-
2,4-dichlorophenol	mg/kg	0.5	<0.5	-
2,4-dimethyl phenol	mg/kg	0.5	<0.5	-
2-nitrophenol	mg/kg	0.5	<0.5	-
Phenol	mg/kg	0.5	<0.5	-
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	-
Pentachlorophenol	mg/kg	0.5	<0.5	-
4-nitrophenol	mg/kg	0.5	<0.5	-
Surrogates				
d5-phenol (Surrogate)	%	-	**90**	-
d5-nitrobenzene (Surrogate)	%	-	**95**	-
2-fluorobiphenyl (Surrogate)	%	-	**115**	-
2,4,6-tribromophenol (Surrogate)	%	-	**109**	-
d14-p-terphenyl (Surrogate)	%	-	**113**	-
Field pH for Acid Sulphate Soil Method: AN104				
PHf	pH Units	-	-	-
PHfox	pH Units	-	-	-
Reaction*	No unit	-	-	-
pH Difference*	pH Units	-10	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320				
Arsenic, As	mg/kg	3	**7**	**4**
Cadmium, Cd	mg/kg	0.3	**0.4**	<0.3
Chromium, Cr	mg/kg	0.3	**12**	**10**
Copper, Cu	mg/kg	0.5	**38**	**47**
Lead, Pb	mg/kg	1	**290**	**180**
Nickel, Ni	mg/kg	0.5	**8.8**	**7.6**
Zinc, Zn	mg/kg	0.5	**140**	**81**

Parameter	Units	LOR	Sample Number: SE100700.031 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC09	Sample Number: SE100700.032 Sample Matrix: Soil Sample Date: 10 Jun 2011 Sample Name: QC10
Mercury in Soil Method: AN312				
Mercury	mg/kg	0.05	**0.15**	**0.11**
Fibre Identification in soil Method: AN602				
FibreID				
Asbestos Detected	No unit	-	-	-
Moisture Content Method: AN234				
% Moisture	%	0.5	**10**	**8.5**
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434				
TRH C6-C9	mg/L	0.04	-	-
Benzene	µg/L	0.5	-	-
Toluene	µg/L	0.5	-	-
Ethylbenzene	µg/L	0.5	-	-
m/p-xylene	µg/L	1	-	-
o-xylene	µg/L	0.5	-	-
Total BTEX*	µg/L	3	-	-
Total Xylenes*	µg/L	1.5	-	-
Surrogates				
Trifluorotoluene (Surrogate)	%	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-
d8-toluene (Surrogate)	%	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403				
TRH C10-C14	µg/L	100	-	-
TRH C15-C28	µg/L	200	-	-
TRH C29-C36	µg/L	200	-	-
Surrogates				
TRH (Surrogate)	%	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420				
Naphthalene	µg/L	0.1	-	-
Acenaphthylene	µg/L	0.1	-	-
Acenaphthene	µg/L	0.1	-	-
Fluorene	µg/L	0.1	-	-
Phenanthrene	µg/L	0.1	-	-
Anthracene	µg/L	0.1	-	-
Fluoranthene	µg/L	0.1	-	-
Pyrene	µg/L	0.1	-	-
Benzo(a)anthracene	µg/L	0.1	-	-
Chrysene	µg/L	0.1	-	-
Benzo(b)fluoranthene	µg/L	0.1	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-
Benzo(a)pyrene	µg/L	0.1	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-
Total PAH (18)*	µg/L	1	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100700.031 Soil 10 Jun 2011 QC09	SE100700.032 Soil 10 Jun 2011 QC10
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 (continued)					
Surrogates					
d5-nitrobenzene (Surrogate)	%	-		-	-
2-fluorobiphenyl (Surrogate)	%	-		-	-
d14-p-terphenyl (Surrogate)	%	-		-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318					
Arsenic, As	µg/L	1		-	-
Cadmium, Cd	µg/L	0.1		-	-
Chromium, Cr	µg/L	1		-	-
Copper, Cu	µg/L	1		-	-
Lead, Pb	µg/L	1		-	-
Nickel, Ni	µg/L	1		-	-
Zinc, Zn	µg/L	1		-	-
Mercury (dissolved) in Water Method: AN311/AN312					
Mercury	mg/L	0.0001		-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Field pH for Acid Sulphate Soil Method: ME-(AU)-[ENV]AN104

Parameter	QC Reference	Units	LOR	DUP %RPD	LCS %Recovery
PHf	LB002760	pH Units	-	0 - 1%	NA
PHfox	LB002760	pH Units	-	1 - 2%	

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420

PAHs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acenaphthene	LB002738	mg/kg	0.5	<0.5	NA
Acenaphthylene	LB002738	mg/kg	0.5	<0.5	NA
Anthracene	LB002738	mg/kg	0.5	<0.5	80%
Benzo(a)anthracene	LB002738	mg/kg	0.5	<0.5	NA
Benzo(b&k)fluoranthene	LB002738	mg/kg	1	<1	NA
Benzo(ghi)perylene	LB002738	mg/kg	0.5	<0.5	NA
Benzo(a)pyrene	LB002738	mg/kg	0.5	<0.5	71%
Chrysene	LB002738	mg/kg	0.5	<0.5	NA
Dibenzo(ah)anthracene	LB002738	mg/kg	0.5	<0.5	NA
Fluoranthene	LB002738	mg/kg	0.5	<0.5	77%
Fluorene	LB002738	mg/kg	0.5	<0.5	NA
Indeno(1,2,3-cd)pyrene	LB002738	mg/kg	0.5	<0.5	NA
1-methylnaphthalene	LB002738	mg/kg	0.5	<0.5	NA
2-methylnaphthalene	LB002738	mg/kg	0.5	<0.5	NA
Naphthalene	LB002738	mg/kg	0.5	<0.5	72%
Phenanthrene	LB002738	mg/kg	0.5	<0.5	75%
Pyrene	LB002738	mg/kg	0.5	<0.5	83%
2-acetylamino fluorene	LB002738	mg/kg	2	<2	NA
7,12-dimethyl-benz(a)anthracene	LB002738	mg/kg	0.5	<0.5	NA
3-methylcholanthrene	LB002738	mg/kg	1	<1	NA

OCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aldrin	LB002738	mg/kg	0.5	<0.5	88%
Alpha-BHC	LB002738	mg/kg	0.5	<0.5	NA
Beta-BHC	LB002738	mg/kg	0.5	<0.5	NA
Delta-BHC	LB002738	mg/kg	0.5	<0.5	NA
Gamma-BHC (Lindane)	LB002738	mg/kg	0.5	<0.5	NA
p,p-DDD	LB002738	mg/kg	0.5	<0.5	NA
p,p-DDE	LB002738	mg/kg	0.5	<0.5	NA
p,p-DDT	LB002738	mg/kg	0.5	<0.5	82%
Dieldrin	LB002738	mg/kg	0.5	<0.5	79%
Alpha-endosulfan	LB002738	mg/kg	0.5	<0.5	NA
Beta-endosulfan	LB002738	mg/kg	0.5	<0.5	NA
Endosulfan sulphate	LB002738	mg/kg	0.5	<0.5	NA
Endrin	LB002738	mg/kg	0.5	<0.5	79%
Heptachlor	LB002738	mg/kg	0.5	<0.5	109%
Heptachlor epoxide	LB002738	mg/kg	0.5	<0.5	NA
Isodrin	LB002738	mg/kg	0.5	<0.5	NA
Methoxychlor	LB002738	mg/kg	0.5	<0.5	NA
Mirex	LB002738	mg/kg	0.5	<0.5	NA
Alpha-chlordane	LB002738	mg/kg	0.5	<0.5	NA
Gamma-chlordane	LB002738	mg/kg	0.5	<0.5	NA
Endrin ketone	LB002738	mg/kg	0.5	<0.5	NA

OPs

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Azinphos-methyl (Guthion)	LB002738	mg/kg	1	<1	NA
Bromophos ethyl	LB002738	mg/kg	1	<1	NA
Carbophenothion	LB002738	mg/kg	1	<1	NA
Chlorfenvinphos-cis (Chlofenvinphos-cis)	LB002738	mg/kg	5	<5	NA
Chlorfenvinphos-trans (Chlofenvinphos-trans)	LB002738	mg/kg	1	<1	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB002738	mg/kg	1	<1	102%
Chlorpyrifos-methyl	LB002738	mg/kg	1	<1	NA
Co-Ral (Coumaphos)	LB002738	mg/kg	1	<1	NA
Diazinon (Dimpylate)	LB002738	mg/kg	1	<1	104%
Dichlorvos	LB002738	mg/kg	1	<1	124%
Demeton-S-methyl	LB002738	mg/kg	1	<1	NA
Dimethoate	LB002738	mg/kg	1	<1	NA
Disulfoton (Di-syston)	LB002738	mg/kg	1	<1	NA
EPN*	LB002738	mg/kg	1	<1	NA
Ethion	LB002738	mg/kg	1	<1	105%
Ethoprophos (ethoprop or prophos)	LB002738	mg/kg	1	<1	NA
Famphur (Famophos)	LB002738	mg/kg	1	<1	NA
Fenamiphos (Phenamiphos)	LB002738	mg/kg	1	<1	NA
Fenchlorophos (Ronnel)	LB002738	mg/kg	1	<1	NA
Fenitrothion	LB002738	mg/kg	1	<1	NA
Fenthion	LB002738	mg/kg	1	<1	NA
Malathion (Maldison)	LB002738	mg/kg	1	<1	NA
Methidathion	LB002738	mg/kg	1	<1	NA
Mevinphos-cis/trans	LB002738	mg/kg	2	<2	NA
o,o,o-triethyl phosphorothioate	LB002738	mg/kg	1	<1	NA
Parathion ethyl (Parathion)	LB002738	mg/kg	1	<1	NA
Parathion methyl	LB002738	mg/kg	1	<1	NA
Phorate	LB002738	mg/kg	1	<1	NA
Pirimiphos-ethyl	LB002738	mg/kg	1	<1	NA
Pirimiphos-methyl	LB002738	mg/kg	1	<1	NA
Profenofos	LB002738	mg/kg	1	<1	NA
Prothiophos (Tokuthion)*	LB002738	mg/kg	1	<1	NA
Sulfotepp	LB002738	mg/kg	1	<1	NA
Tetrachlorvinphos (Stirophos)*	LB002738	mg/kg	1	<1	NA

PCB UPAC(7) Congeners

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
PCB Congener C28	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C52	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C101	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C118	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C138	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C153	LB002738	mg/kg	0.5	<0.5	NA
PCB Congener C180	LB002738	mg/kg	0.5	<0.5	NA

SVCH (Cl Benzenes, Hydrocarbons & VOCs)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Hexachlorobenzene	LB002738	mg/kg	0.5	<0.5	118%
1,2-dichlorobenzene	LB002738	mg/kg	0.5	<0.5	NA
1,3-dichlorobenzene	LB002738	mg/kg	0.5	<0.5	NA
1,4-dichlorobenzene	LB002738	mg/kg	0.5	<0.5	NA
Hexachlorobutadiene	LB002738	mg/kg	0.5	<0.5	NA
Hexachlorocyclopentadiene	LB002738	mg/kg	1	<1	NA
Hexachloroethane	LB002738	mg/kg	0.5	<0.5	NA
Hexachloroproprene	LB002738	mg/kg	0.5	<0.5	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

				MB	LCS %Recovery
Pentachlorobenzene	LB002738	mg/kg	0.5	<0.5	115%
Pentachloroethane	LB002738	mg/kg	0.5	<0.5	NA
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	LB002738	mg/kg	1	<1	NA
1,2,3,4-tetrachlorobenzene	LB002738	mg/kg	0.5	<0.5	124%
1/2-Chloronaphthalene	LB002738	mg/kg	1	<1	NA
1,2,4-trichlorobenzene	LB002738	mg/kg	0.5	<0.5	NA

Phthalates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-ethylhexyl)phthalate	LB002738	mg/kg	5	<5	NA
Bis(2-ethylhexyl)adipate	LB002738	mg/kg	0.5	<0.5	NA
Butyl benzyl phthalate	LB002738	mg/kg	0.5	<0.5	120%
Di-n-butyl phthalate	LB002738	mg/kg	0.5	<0.5	111%
Diethyl phthalate	LB002738	mg/kg	0.5	<0.5	116%
Dimethyl phthalate	LB002738	mg/kg	0.5	<0.5	118%
Dioctyl phthalate	LB002738	mg/kg	0.5	<0.5	NA

Carbamates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbofuran	LB002738	mg/kg	0.5	<0.5	NA
Carbaryl	LB002738	mg/kg	0.5	<0.5	NA

Herbicides (normal)

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluralin	LB002738	mg/kg	0.5	<0.5	NA

Nitrosamines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
N-nitroso-di-n-butylamine (NDBA)	LB002738	mg/kg	0.5	<0.5	NA
N-nitroso-diethylamine (NDEA)	LB002738	mg/kg	1	<1	NA
N-nitroso-di-n-propylamine (NDPA)	LB002738	mg/kg	0.5	<0.5	NA
N-nitroso-morpholine (NMOR)	LB002738	mg/kg	0.5	<0.5	NA
N-nitroso-piperidine (NPIP)	LB002738	mg/kg	0.5	<0.5	NA
N-nitroso-pyrrolidine (NPYR)	LB002738	mg/kg	1	<1	NA
4-amino biphenyl	LB002738	mg/kg	1	<1	NA

Nitroaromatics and Ketones

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetophenone	LB002738	mg/kg	0.5	<0.5	NA
1,3-dinitrobenzene	LB002738	mg/kg	1	<1	NA
2,4-dinitrotoluene	LB002738	mg/kg	0.5	<0.5	NA
2,6-dinitrotoluene	LB002738	mg/kg	0.5	<0.5	NA
Isophorone	LB002738	mg/kg	0.5	<0.5	NA
Nitrobenzene	LB002738	mg/kg	0.5	<0.5	NA
p-(dimethylamino) azobenzene	LB002738	mg/kg	1	<1	NA
Phenacetin	LB002738	mg/kg	1	<1	NA
Pentachloronitrobenzene (quintozene)	LB002738	mg/kg	0.5	<0.5	100%

Anilines and Amines

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Aniline	LB002738	mg/kg	3	<3	NA
4-chloroaniline	LB002738	mg/kg	1	<1	NA
2-nitroaniline	LB002738	mg/kg	1	<1	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Full 8270 SVOC in Soil Method: ME-(AU)-[ENV]AN420 (continued)

				MB	LCS %Recovery
3-nitroaniline	LB002738	mg/kg	1	<1	NA
4-nitroaniline	LB002738	mg/kg	1	<1	NA
Diphenylamine	LB002738	mg/kg	0.5	<0.5	NA
o-toluidine	LB002738	mg/kg	1	<1	NA
5-nitro-o-toluidine	LB002738	mg/kg	1	<1	NA
1-naphthylamine	LB002738	mg/kg	1	<1	NA
2-naphthylamine	LB002738	mg/kg	1	<1	NA

Haloethers

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Bis(2-chloroethoxy) methane	LB002738	mg/kg	0.5	<0.5	NA
Bis(2-chloroethyl) ether	LB002738	mg/kg	0.5	<0.5	NA
Bis(2-chloroisopropyl) ether	LB002738	mg/kg	0.5	<0.5	NA
4-chlorophenyl phenyl ether	LB002738	mg/kg	0.5	<0.5	NA
4-bromophenyl phenyl ether	LB002738	mg/kg	0.5	<0.5	NA

Other SVOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Methyl methanesulfonate	LB002738	mg/kg	1	<1	NA
Ethyl methanesulfonate	LB002738	mg/kg	1	<1	NA
Dibenzofuran	LB002738	mg/kg	0.5	<0.5	NA
Benzyl alcohol	LB002738	mg/kg	1	<1	NA
Safrole	LB002738	mg/kg	0.5	<0.5	NA
Isosafrole Isomer 1	LB002738	mg/kg	1	<1	NA
Isosafrole Isomer 2	LB002738	mg/kg	1	<1	NA
1,4-naphthoquinone	LB002738	mg/kg	0.5	<0.5	NA
Thionazin	LB002738	mg/kg	1	<1	NA

Speciated Routine Phenols

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
3/4-methyl phenol (m/p-cresol)	LB002738	mg/kg	1	<1	NA
2-methyl phenol (o-cresol)	LB002738	mg/kg	0.5	<0.5	NA
2,6-dichlorophenol	LB002738	mg/kg	0.5	<0.5	NA
2,3,4,6 and 2,3,5,6-tetrachlorophenol	LB002738	mg/kg	1	<1	NA
2,4,5-trichlorophenol	LB002738	mg/kg	0.5	<0.5	NA
4-chloro-3-methylphenol	LB002738	mg/kg	1	<1	NA
2-chlorophenol	LB002738	mg/kg	0.5	<0.5	NA
2,4-dichlorophenol	LB002738	mg/kg	0.5	<0.5	130%
2,4-dimethyl phenol	LB002738	mg/kg	0.5	<0.5	NA
2-nitrophenol	LB002738	mg/kg	0.5	<0.5	NA
Phenol	LB002738	mg/kg	0.5	<0.5	110%
2,4,6-trichlorophenol	LB002738	mg/kg	0.5	<0.5	120%
Pentachlorophenol	LB002738	mg/kg	0.5	<0.5	100%
4-nitrophenol	LB002738	mg/kg	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-phenol (Surrogate)	LB002738	%	-	122%	93%
d5-nitrobenzene (Surrogate)	LB002738	%	-	118%	105%
2-fluorobiphenyl (Surrogate)	LB002738	%	-	130%	118%
2,4,6-tribromophenol (Surrogate)	LB002738	%	-	128%	103%
d14-p-terphenyl (Surrogate)	LB002738	%	-	130%	118%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Mercury	LB002756	mg/L	0.0001	<0.0001	108%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB002786	mg/kg	0.05	<0.05	5 - 10%	114%	108%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002781	mg/kg	3	<3	14 - 60%	100%	89%
Cadmium, Cd	LB002781	mg/kg	0.3	<0.3	0%	103%	89%
Chromium, Cr	LB002781	mg/kg	0.3	<0.3	1 - 18%	102%	89%
Copper, Cu	LB002781	mg/kg	0.5	<0.5	8 - 9%	104%	99%
Lead, Pb	LB002781	mg/kg	1	<1	4 - 6%	102%	83%
Nickel, Ni	LB002781	mg/kg	0.5	<0.5	7 - 17%	103%	88%
Zinc, Zn	LB002781	mg/kg	0.5	<0.5	3 - 7%	101%	81%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB002738	mg/kg	0.1	<0.1	0 - 6%	115%	116%
Acenaphthylene	LB002738	mg/kg	0.1	<0.1	0 - 3%	118%	119%
Acenaphthene	LB002738	mg/kg	0.1	<0.1	0 - 13%	113%	117%
Fluorene	LB002738	mg/kg	0.1	<0.1	0 - 13%	NA	NA
Phenanthrene	LB002738	mg/kg	0.1	<0.1	0 - 17%	111%	127%
Anthracene	LB002738	mg/kg	0.1	<0.1	0 - 13%	118%	125%
Fluoranthene	LB002738	mg/kg	0.1	<0.1	0 - 5%	111%	126%
Pyrene	LB002738	mg/kg	0.1	<0.1	0 - 4%	115%	130%
Benzo(a)anthracene	LB002738	mg/kg	0.1	<0.1	0 - 4%	NA	NA
Chrysene	LB002738	mg/kg	0.1	<0.1	0 - 1%	NA	NA
Benzo(b)fluoranthene	LB002738	mg/kg	0.1	<0.1	0 - 1%	NA	NA
Benzo(k)fluoranthene	LB002738	mg/kg	0.1	<0.1	0 - 5%	NA	NA
Benzo(a)pyrene	LB002738	mg/kg	0.05	<0.05	0 - 1%	113%	121%
Indeno(1,2,3-cd)pyrene	LB002738	mg/kg	0.1	<0.1	0 - 1%	NA	NA
Dibenzo(a&h)anthracene	LB002738	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB002738	mg/kg	0.1	<0.1	0 - 1%	NA	NA
Total PAH	LB002738	mg/kg	1.75	<1.8	0 - 5%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB002738	%	-	118%	4 - 8%	106%	110%
2-fluorobiphenyl (Surrogate)	LB002738	%	-	104%	4 - 8%	107%	108%
d14-p-terphenyl (Surrogate)	LB002738	%	-	85%	0 - 4%	76%	91%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB002750	µg/L	0.1	<0.1	125%
Acenaphthylene	LB002750	µg/L	0.1	<0.1	122%
Acenaphthene	LB002750	µg/L	0.1	<0.1	122%
Fluorene	LB002750	µg/L	0.1	<0.1	NA
Phenanthrene	LB002750	µg/L	0.1	<0.1	121%
Anthracene	LB002750	µg/L	0.1	<0.1	124%
Fluoranthene	LB002750	µg/L	0.1	<0.1	121%
Pyrene	LB002750	µg/L	0.1	<0.1	123%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
Benzo(a)anthracene	LB002750	µg/L	0.1	<0.1	NA
Chrysene	LB002750	µg/L	0.1	<0.1	NA
Benzo(b)fluoranthene	LB002750	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB002750	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB002750	µg/L	0.1	<0.1	119%
Indeno(1,2,3-cd)pyrene	LB002750	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB002750	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB002750	µg/L	0.1	<0.1	NA
Total PAH (18)*	LB002750	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002750	%	-	125%	113%
2-fluorobiphenyl (Surrogate)	LB002750	%	-	109%	114%
d14-p-terphenyl (Surrogate)	LB002750	%	-	88%	110%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002729	µg/L	1	<1	0%	104%	
Cadmium, Cd	LB002729	µg/L	0.1	<0.1	0%	104%	
Chromium, Cr	LB002729	µg/L	1	<1	0%	108%	
Copper, Cu	LB002729	µg/L	1	<1	0%	107%	
Lead, Pb	LB002729	µg/L	1	<1	0%	109%	
Nickel, Ni	LB002729	µg/L	1	<1	0 - 2%	116%	110%
Zinc, Zn	LB002729	µg/L	1	<1	2 - 4%	102%	80%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB002738	mg/kg	20	<20	0%	113%	103%
TRH C15-C28	LB002738	mg/kg	50	<50	0 - 5%	110%	120%
TRH C29-C36	LB002738	mg/kg	50	<50	0 - 6%	93%	90%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C10-C14	LB002750	µg/L	100	<100	81%
TRH C15-C28	LB002750	µg/L	200	<200	106%
TRH C29-C36	LB002750	µg/L	200	<200	104%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Fumigants

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
2,2-dichloropropane	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2-dichloropropane	LB002743	mg/kg	0.1	<0.1	0%	NA
cis-1,3-dichloropropene	LB002743	mg/kg	0.1	<0.1	0%	NA
trans-1,3-dichloropropene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2-dibromoethane (EDB)	LB002743	mg/kg	0.1	<0.1	0%	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Dichlorodifluoromethane (CFC-12)	LB002743	mg/kg	1	<1	0%	NA
Chloromethane	LB002743	mg/kg	1	<1	0%	NA
Vinyl chloride (Chloroethene)	LB002743	mg/kg	0.1	<0.1	0%	NA
Bromomethane	LB002743	mg/kg	1	<1	0%	NA
Chloroethane	LB002743	mg/kg	1	<1	0%	NA
Trichlorofluoromethane	LB002743	mg/kg	1	<1	0%	NA
Iodomethane	LB002743	mg/kg	5	<5	0%	NA
1,1-dichloroethene	LB002743	mg/kg	0.1	<0.1	0%	106%
Dichloromethane (Methylene chloride)	LB002743	mg/kg	0.5	<0.5	0%	NA
Allyl chloride	LB002743	mg/kg	0.1	<0.1	0%	NA
trans-1,2-dichloroethene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,1-dichloroethane	LB002743	mg/kg	0.1	<0.1	0%	NA
cis-1,2-dichloroethene	LB002743	mg/kg	0.1	<0.1	0%	NA
Bromochloromethane	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2-dichloroethane	LB002743	mg/kg	0.1	<0.1	0%	114%
1,1,1-trichloroethane	LB002743	mg/kg	0.1	<0.1	0%	NA
1,1-dichloropropene	LB002743	mg/kg	0.1	<0.1	0%	NA
Carbon tetrachloride	LB002743	mg/kg	0.1	<0.1	0%	NA
Dibromomethane	LB002743	mg/kg	0.1	<0.1	0%	NA
Trichloroethene (Trichloroethylene -TCE)	LB002743	mg/kg	0.1	<0.1	0%	107%
1,1,2-trichloroethane	LB002743	mg/kg	0.1	<0.1	0%	NA
1,3-dichloropropane	LB002743	mg/kg	0.1	<0.1	0%	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB002743	mg/kg	0.1	<0.1	0%	NA
1,1,1,2-tetrachloroethane	LB002743	mg/kg	0.1	<0.1	0%	NA
cis-1,4-dichloro-2-butene	LB002743	mg/kg	1	<1	0%	NA
1,1,2,2-tetrachloroethane	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2,3-trichloropropane	LB002743	mg/kg	0.1	<0.1	0%	NA
trans-1,4-dichloro-2-butene	LB002743	mg/kg	1	<1	0%	NA
1,2-dibromo-3-chloropropane	LB002743	mg/kg	0.1	<0.1	0%	NA
Hexachlorobutadiene	LB002743	mg/kg	0.1	<0.1	0%	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Chlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	105%
Bromobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
2-chlorotoluene	LB002743	mg/kg	0.1	<0.1	0%	NA
4-chlorotoluene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,3-dichlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,4-dichlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2-dichlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2,4-trichlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2,3-trichlorobenzene	LB002743	mg/kg	0.1	<0.1	0%	NA

Monocyclic Aromatic Hydrocarbons

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Benzene	LB002743	mg/kg	0.1	<0.1	0%	108%
Toluene	LB002743	mg/kg	0.1	<0.1	0%	95%
Ethylbenzene	LB002743	mg/kg	0.1	<0.1	0%	89%
m/p-xylene	LB002743	mg/kg	0.2	<0.2	0%	111%
Styrene (Vinyl benzene)	LB002743	mg/kg	0.1	<0.1	0%	NA
o-xylene	LB002743	mg/kg	0.1	<0.1	0%	107%
Isopropylbenzene (Cumene)	LB002743	mg/kg	0.1	<0.1	0%	NA
n-propylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,3,5-trimethylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
tert-butylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
1,2,4-trimethylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
sec-butylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA
p-isopropyltoluene	LB002743	mg/kg	0.1	<0.1	0%	NA
n-butylbenzene	LB002743	mg/kg	0.1	<0.1	0%	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Acrylonitrile	LB002743	mg/kg	0.1	<0.1	0%	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Acetone (2-propanone)	LB002743	mg/kg	10	<10	0%	NA
MtBE (Methyl-tert-butyl ether)	LB002743	mg/kg	0.5	<0.5	0%	NA
Vinyl acetate	LB002743	mg/kg	10	<10	0%	NA
MEK (2-butanone)	LB002743	mg/kg	10	<10	0%	NA
MIBK (4-methyl-2-pentanone)	LB002743	mg/kg	1	<1	0%	NA
2-hexanone (MBK)	LB002743	mg/kg	5	<5	0%	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Naphthalene	LB002743	mg/kg	0.1	<0.1	103%	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Carbon disulfide	LB002743	mg/kg	0.5	<0.5	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB002743	%	-	90%	0%	88%
d4-1,2-dichloroethane (Surrogate)	LB002743	%	-	105%	2%	100%
d8-toluene (Surrogate)	LB002743	%	-	95%	7%	92%
Bromofluorobenzene (Surrogate)	LB002743	%	-	82%	10%	98%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Total Xylenes*	LB002743	mg/kg	0.3	<0.3	0%	NA

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Chloroform	LB002743	mg/kg	0.1	<0.1	0%	86%
Bromodichloromethane	LB002743	mg/kg	0.1	<0.1	0%	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	DUP %RPD	LCS %Recovery
Chlorodibromomethane	LB002743	mg/kg	0.1	<0.1	0%	NA
Bromoform	LB002743	mg/kg	0.1	<0.1	0%	NA

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB002743	mg/kg	20	<20	0%	92%	128%
Benzene	LB002743	mg/kg	0.1	<0.1	0%	64%	122%
Toluene	LB002743	mg/kg	0.1	<0.1	0%	62%	120%
Ethylbenzene	LB002743	mg/kg	0.1	<0.1	0%	64%	121%
m/p-xylene	LB002743	mg/kg	1	<1	0%	65%	129%
o-xylene	LB002743	mg/kg	0.5	<0.5	0%	62%	123%
Total Xylenes	LB002743	mg/kg	0.3	<0.3	0%	64%	127%
Total BTEX*	LB002743	mg/kg	2.7	<2.7	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB002743	%	-	61%	1 - 5%	112%	108%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB002798	mg/L	0.04	<40	125%
Benzene	LB002798	µg/L	0.5	<0.5	99%
Toluene	LB002798	µg/L	0.5	<0.5	100%
Ethylbenzene	LB002798	µg/L	0.5	<0.5	99%
m/p-xylene	LB002798	µg/L	1	<1	97%
o-xylene	LB002798	µg/L	0.5	<0.5	101%
Total BTEX*	LB002798	µg/L	3	<3	NA
Total Xylenes*	LB002798	µg/L	1.5	<2	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB002798	%	-	76%	71%

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN104	pHF is determined on an extract of approximately 2g of as received sample in approximately 10 mL of deionised water with pH determined after standing 30 minutes.
AN104	pHFox is determined on an extract of approximately 2g of as received sample with a few mLs of 30% hydrogen peroxide (adjusted to pH 4.5 to 5.5) with the extract reaction being rated from slight to extreme, with pH determined after reaction is complete and extract has cooled. Referenced to ASS Laboratory Methods Guidelines, method 23Af-Bf, 2004.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Additional**
Order Number	**92611-92612, 92615-62918**
Samples	2

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100700B R1
Report Number	0000004773
Date Reported	04 Aug 2011
Date Received	16 Jun 2011

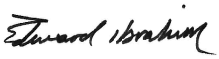
COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

Site : Sydney Convention Centre

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader



Edward Ibrahim
Business Manager

Ly Kim Ha
Organics Supervisor

Parameter	Units	LOR	Sample Number SE100700B.011 Sample Matrix Soil Sample Date 09 Jun 2011 Sample Name BH13_4.0
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.7**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.0**
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	-
2-methylnaphthalene	µg/L	0.1	-
1-methylnaphthalene	µg/L	0.1	-
Acenaphthylene	µg/L	0.1	-
Acenaphthene	µg/L	0.1	-
Fluorene	µg/L	0.1	-
Phenanthrene	µg/L	0.1	-
Anthracene	µg/L	0.1	-
Fluoranthene	µg/L	0.1	-
Pyrene	µg/L	0.1	-
Benzo(a)anthracene	µg/L	0.1	-
Chrysene	µg/L	0.1	-
Benzo(b&k)fluoranthene	µg/L	0.2	-
Benzo(b)fluoranthene	µg/L	0.1	-
Benzo(k)fluoranthene	µg/L	0.1	-
Benzo(a)pyrene	µg/L	0.1	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-
Dibenzo(a&h)anthracene	µg/L	0.1	-
Benzo(ghi)perylene	µg/L	0.1	-
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	-
Nickel, Ni	mg/L	0.01	<0.010

Parameter	Units	LOR	Sample Number SE100700B.020 Sample Matrix Soil Sample Date 10 Jun 2011 Sample Name BH10_1.1-1.3
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**9.0**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**25**
Volume of ExtractionSolution Used*	mL	-	**500**
pH TCLP after 18 hours	pH Units	-	**5.4**

Parameter	Units	LOR	Sample Number SE100700B.020 Sample Matrix Soil Sample Date 10 Jun 2011 Sample Name BH10_1.1-1.3
PAH (Polynuclear Aromatic Hydrocarbons) in TCLP Extract Method: AN420			
Naphthalene	µg/L	0.1	**34**
2-methylnaphthalene	µg/L	0.1	**9.0**
1-methylnaphthalene	µg/L	0.1	**8.6**
Acenaphthylene	µg/L	0.1	**0.3**
Acenaphthene	µg/L	0.1	**23**
Fluorene	µg/L	0.1	**21**
Phenanthrene	µg/L	0.1	**35**
Anthracene	µg/L	0.1	**9.4**
Fluoranthene	µg/L	0.1	**4.1**
Pyrene	µg/L	0.1	**3.1**
Benzo(a)anthracene	µg/L	0.1	**0.2**
Chrysene	µg/L	0.1	<0.1
Benzo(b&k)fluoranthene	µg/L	0.2	<0.2
Benzo(b)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	**91**
2-fluorobiphenyl (Surrogate)	%	-	**96**
d14-p-terphenyl (Surrogate)	%	-	**95**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.76**
Nickel, Ni	mg/L	0.01	-

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Metals in Soil (TCLP) by ICPOES **Method: ME-(AU)-[ENV]AN320/AN321**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lead, Pb	LB003711	mg/L	0.02	<0.020	NA
Nickel, Ni	LB003711	mg/L	0.01	<0.010	NA

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB003697	µg/L	0.1	<0.1	81%
2-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
1-methylnaphthalene	LB003697	µg/L	0.1	<0.1	NA
Acenaphthylene	LB003697	µg/L	0.1	<0.1	86%
Acenaphthene	LB003697	µg/L	0.1	<0.1	92%
Fluorene	LB003697	µg/L	0.1	<0.1	NA
Phenanthrene	LB003697	µg/L	0.1	<0.1	92%
Anthracene	LB003697	µg/L	0.1	<0.1	96%
Fluoranthene	LB003697	µg/L	0.1	<0.1	94%
Pyrene	LB003697	µg/L	0.1	<0.1	100%
Benzo(a)anthracene	LB003697	µg/L	0.1	<0.1	NA
Chrysene	LB003697	µg/L	0.1	<0.1	NA
Benzo(b&k)fluoranthene	LB003697	µg/L	0.2	<0.2	NA
Benzo(b)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB003697	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB003697	µg/L	0.1	<0.1	104%
Indeno(1,2,3-cd)pyrene	LB003697	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB003697	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB003697	µg/L	0.1	<0.1	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB003697	%	-	103%	113%
2-fluorobiphenyl (Surrogate)	LB003697	%	-	103%	113%
d14-p-terphenyl (Surrogate)	LB003697	%	-	96%	112%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Syd Ent Centre**
Order Number	**56199**
Samples	4

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100711 R0
Report Number	0000003627
Date Reported	28/06/2011 2:37:11PM
Date Received	17 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

Site : Sydney Entertainment Centre

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Huong Crawford
Laboratory Manager

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100711.001	BH14_2.5	Soil	68g Clay, Soil, Rocks	17 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100711 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Syd Ent Centre**
Order Number	**56199**
Samples	4

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100711 R0
Report Number	0000003626
Date Reported	28 Jun 2011
Date Received	17 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

Site : Sydney Entertainment Centre

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Huong Crawford
Laboratory Manager

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number: SE100711.001	SE100711.002	SE100711.003	SE100711.004
			Sample Matrix: Soil	Soil	Soil	Water
			Sample Depth: 2.5	5.5	-	-
			Sample Date: 17 Jun 2011	17 Jun 2011	17 Jun 2011	17 Jun 2011
			Sample Name: BH14_2.5	BH14_5.5	QC	TB
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434						
TRH C6-C9	mg/kg	20	<20	<20	<20	-
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-
m/p-xylene	mg/kg	1	<1	<1	<1	-
o-xylene	mg/kg	0.5	<0.5	<0.5	<0.5	-
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	2.7	<2.7	<2.7	<2.7	-
Surrogates						
Trifluorotoluene (Surrogate)	%	-	**71**	**91**	**79**	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403						
TRH C10-C14	mg/kg	20	<20	<20	<20	-
TRH C15-C28	mg/kg	50	<50	<50	<50	-
TRH C29-C36	mg/kg	50	<50	<50	<50	-
Surrogates						
TRH (Surrogate)	%	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420						
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	**0.8**	-	-	-
Anthracene	mg/kg	0.1	**0.2**	-	-	-
Fluoranthene	mg/kg	0.1	**0.6**	-	-	-
Pyrene	mg/kg	0.1	**0.8**	-	-	-
Benzo(a)anthracene	mg/kg	0.1	**0.3**	-	-	-
Chrysene	mg/kg	0.1	**0.3**	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	**0.3**	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	**0.1**	-	-	-
Benzo(a)pyrene	mg/kg	0.05	**0.29**	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.1**	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	**0.2**	-	-	-
Total PAH	mg/kg	1.75	**4.2**	-	-	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	**88**	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	**93**	-	-	-
d14-p-terphenyl (Surrogate)	%	-	**82**	-	-	-

Parameter	Units	LOR	Sample Number: SE100711.001 Sample Matrix: Soil Sample Depth: 2.5 Sample Date: 17 Jun 2011 Sample Name: BH14_2.5	SE100711.002 Soil 5.5 17 Jun 2011 BH14_5.5	SE100711.003 Soil - 17 Jun 2011 QC	SE100711.004 Water - 17 Jun 2011 TB
Field pH for Acid Sulphate Soil Method: AN104						
PHf	pH Units	-	**10.7**	**8.1**	-	-
PHfox	pH Units	-	**8.0**	**6.8**	-	-
Reaction*	No unit	-	XXXX	XX	-	-
pH Difference*	pH Units	-10	**2.7**	**1.3**	-	-
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320						
Arsenic, As	mg/kg	3	**7**	**6**	**6**	-
Cadmium, Cd	mg/kg	0.3	**0.5**	**0.5**	<0.3	-
Chromium, Cr	mg/kg	0.3	**18**	**14**	**14**	-
Copper, Cu	mg/kg	0.5	**120**	**9.4**	**36**	-
Lead, Pb	mg/kg	1	**170**	**19**	**38**	-
Nickel, Ni	mg/kg	0.5	**14**	**6.8**	**12**	-
Zinc, Zn	mg/kg	0.5	**340**	**130**	**94**	-
Mercury in Soil Method: AN312						
Mercury	mg/kg	0.05	**1.0**	**0.06**	**0.08**	-
Fibre Identification in soil Method: AN602						
FibreID						
Asbestos Detected	No unit	-	No	-	-	-
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434						
Benzene	µg/L	0.5	-	-	-	<0.5
Toluene	µg/L	0.5	-	-	-	<0.5
Ethylbenzene	µg/L	0.5	-	-	-	<0.5
m/p-xylene	µg/L	1	-	-	-	<1
o-xylene	µg/L	0.5	-	-	-	<0.5
Total BTEX*	µg/L	3	-	-	-	<3
Total Xylenes*	µg/L	1.5	-	-	-	<1.5
Surrogates						
Trifluorotoluene (Surrogate)	%	-	-	-	-	**78**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
Moisture Content Method: AN234						
% Moisture	%	0.5	**25**	**24**	**23**	-

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Field pH for Acid Sulphate Soil Method: ME-(AU)-[ENV]AN104

Parameter	QC Reference	Units	LOR	LCS %Recovery
PHf	LB002904	pH Units	-	NA

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Mercury	LB002787	mg/kg	0.05	<0.05	115%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Arsenic, As	LB002783	mg/kg	3	<3	102%
Cadmium, Cd	LB002783	mg/kg	0.3	<0.3	105%
Chromium, Cr	LB002783	mg/kg	0.3	<0.3	105%
Copper, Cu	LB002783	mg/kg	0.5	<0.5	105%
Lead, Pb	LB002783	mg/kg	1	<1	105%
Nickel, Ni	LB002783	mg/kg	0.5	<0.5	106%
Zinc, Zn	LB002783	mg/kg	0.5	<0.5	106%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Naphthalene	LB002703	mg/kg	0.1	<0.1	0%	113%
Acenaphthylene	LB002703	mg/kg	0.1	<0.1	0%	116%
Acenaphthene	LB002703	mg/kg	0.1	<0.1	42%	118%
Fluorene	LB002703	mg/kg	0.1	<0.1	9%	NA
Phenanthrene	LB002703	mg/kg	0.1	<0.1	14%	117%
Anthracene	LB002703	mg/kg	0.1	<0.1	27%	120%
Fluoranthene	LB002703	mg/kg	0.1	<0.1	57%	119%
Pyrene	LB002703	mg/kg	0.1	<0.1	22%	127%
Benzo(a)anthracene	LB002703	mg/kg	0.1	<0.1	31%	NA
Chrysene	LB002703	mg/kg	0.1	<0.1	43%	NA
Benzo(b)fluoranthene	LB002703	mg/kg	0.1	<0.1	68%	NA
Benzo(k)fluoranthene	LB002703	mg/kg	0.1	<0.1	63%	NA
Benzo(a)pyrene	LB002703	mg/kg	0.05	<0.05	41%	121%
Indeno(1,2,3-cd)pyrene	LB002703	mg/kg	0.1	<0.1	63%	NA
Dibenzo(a&h)anthracene	LB002703	mg/kg	0.1	<0.1	0%	NA
Benzo(ghi)perylene	LB002703	mg/kg	0.1	<0.1	42%	NA
Total PAH	LB002703	mg/kg	1.75	<1.8	38%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002703	%	-	118%	8%	117%
2-fluorobiphenyl (Surrogate)	LB002703	%	-	105%	14%	107%
d14-p-terphenyl (Surrogate)	LB002703	%	-	121%	1%	105%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C10-C14	LB002703	mg/kg	20	<20	0%	115%
TRH C15-C28	LB002703	mg/kg	50	<50	0%	113%
TRH C29-C36	LB002703	mg/kg	50	<50	0%	118%

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB002705	mg/kg	20	<20	88%
Benzene	LB002705	mg/kg	0.1	<0.1	69%
Toluene	LB002705	mg/kg	0.1	<0.1	69%
Ethylbenzene	LB002705	mg/kg	0.1	<0.1	67%
m/p-xylene	LB002705	mg/kg	1	<1	68%
o-xylene	LB002705	mg/kg	0.5	<0.5	68%
Total Xylenes	LB002705	mg/kg	0.3	<0.3	68%
Total BTEX*	LB002705	mg/kg	2.7	<2.7	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB002705	%	-	108%	126%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene	LB002798	µg/L	0.5	<0.5	99%
Toluene	LB002798	µg/L	0.5	<0.5	100%
Ethylbenzene	LB002798	µg/L	0.5	<0.5	99%
m/p-xylene	LB002798	µg/L	1	<1	97%
o-xylene	LB002798	µg/L	0.5	<0.5	101%
Total BTEX*	LB002798	µg/L	3	<3	NA
Total Xylenes*	LB002798	µg/L	1.5	<1.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB002798	%	-	76%	71%

METHOD	METHODOLOGY SUMMARY
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN104	pHF is determined on an extract of approximately 2g of as received sample in approximately 10 mL of deionised water with pH determined after standing 30 minutes.
AN104	pHFox is determined on an extract of approximately 2g of as received sample with a few mLs of 30% hydrogen peroxide (adjusted to pH 4.5 to 5.5) with the extract reaction being rated from slight to extreme, with pH determined after reaction is complete and extract has cooled. Referenced to ASS Laboratory Methods Guidelines, method 23Af-Bf, 2004.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Additional**
Order Number	**56199**
Samples	1

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100711B R0
Report Number	0000004775
Date Reported	04 Aug 2011
Date Received	17 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

Site : Sydney Entertainment Centre

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Parameter	Units	LOR	Sample Number SE100711B.001 Sample Matrix Soil Sample Depth 2.5 Sample Date 17 Jun 2011 Sample Name BH14_2.5
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**9.8**
pH 1:20 plus HCL	pH Units	-	**2.0**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.3**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.036**

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Metals in Soil (TCLP) by ICPOES **Method: ME-(AU)-[ENV]AN320/AN321**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lead, Pb	LB003711	mg/L	0.02	<0.020	NA

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA-SMCEC**
Order Number	**89333-89335**
Samples	11

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100735 R0
Report Number	0000003669
Date Reported	29/06/2011 3:09:51PM
Date Received	21 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES

Andy Sutton
Organics Chemist

Dong Liang
Inorganics Metals Team Leader

Huong Crawford
Laboratory Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100735.001	BH5_1.5-1.6	Soil	350g Soil,clay,rocks	14 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100735.003	BH5_4-4.1	Soil	55g Clay,rocks	14 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100735.006	BH8_0.5-0.6	Soil	210g Soil,rocks	14 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100735.007	BH9_0.5-0.6	Soil	110g Soil,rocks	15 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100735.008	BH17_1-1.1	Soil	100g Soil,rocks	16 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100735.009	BH17_2-2.1	Soil	150g Clay	16 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100735 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA-SMCEC**
Order Number	**89333-89335**
Samples	11

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100735 R0
Report Number	0000003667
Date Reported	29 Jun 2011
Date Received	21 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES

Andy Sutton
Organics Chemist

Dong Liang
Inorganics Metals Team Leader

Huong Crawford
Laboratory Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100735.001 Soil 14 Jun 2011 BH5_1.5-1.6	SE100735.002 Soil 14 Jun 2011 BH5_2.5-2.6	SE100735.003 Soil 14 Jun 2011 BH5_4-4.1	SE100735.004 Soil 15 Jun 2011 BH5_8.5m	SE100735.005 Soil 15 Jun 2011 BH5_14.5m
VOC's in Soil Method: AN433/AN434								
Fumigants								
2,2-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
1,2-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1		-	<0.1	-	-	-
Halogenated Aliphatics								
Dichlorodifluoromethane (CFC-12)	mg/kg	1		-	<1	-	-	-
Chloromethane	mg/kg	1		-	<1	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1		-	<0.1	-	-	-
Bromomethane	mg/kg	1		-	<1	-	-	-
Chloroethane	mg/kg	1		-	<1	-	-	-
Trichlorofluoromethane	mg/kg	1		-	<1	-	-	-
Iodomethane	mg/kg	5		-	<5	-	-	-
1,1-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5		-	<0.5	-	-	-
Allyl chloride	mg/kg	0.1		-	<0.1	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
1,1-dichloroethane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1		-	<0.1	-	-	-
Bromochloromethane	mg/kg	0.1		-	<0.1	-	-	-
1,2-dichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,1,1-trichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,1-dichloropropene	mg/kg	0.1		-	<0.1	-	-	-
Carbon tetrachloride	mg/kg	0.1		-	<0.1	-	-	-
Dibromomethane	mg/kg	0.1		-	<0.1	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1		-	<0.1	-	-	-
1,1,2-trichloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,3-dichloropropane	mg/kg	0.1		-	<0.1	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1		-	<0.1	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1		-	<1	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1		-	<0.1	-	-	-
1,2,3-trichloropropane	mg/kg	0.1		-	<0.1	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1		-	<1	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1		-	<0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1		-	<0.1	-	-	-
Halogenated Aromatics								
Chlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
Bromobenzene	mg/kg	0.1		-	<0.1	-	-	-
2-chlorotoluene	mg/kg	0.1		-	<0.1	-	-	-
4-chlorotoluene	mg/kg	0.1		-	<0.1	-	-	-
1,3-dichlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
1,4-dichlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
1,2-dichlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1		-	<0.1	-	-	-
Monocyclic Aromatic Hydrocarbons								
Benzene	mg/kg	0.1		-	<0.1	-	-	-
Toluene	mg/kg	0.1		-	<0.1	-	-	-
Ethylbenzene	mg/kg	0.1		-	<0.1	-	-	-
m/p-xylene	mg/kg	0.2		-	<0.2	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1		-	<0.1	-	-	-
o-xylene	mg/kg	0.1		-	<0.1	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1		-	<0.1	-	-	-
n-propylbenzene	mg/kg	0.1		-	<0.1	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100735.001 Soil 14 Jun 2011 BH5_1.5-1.6	SE100735.002 Soil 14 Jun 2011 BH5_2.5-2.6	SE100735.003 Soil 14 Jun 2011 BH5_4-4.1	SE100735.004 Soil 15 Jun 2011 BH5_8.5m	SE100735.005 Soil 15 Jun 2011 BH5_14.5m
VOC's in Soil Method: AN433/AN434 (continued)							
1,3,5-trimethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
tert-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
sec-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	<0.1	-	-	-
n-butylbenzene	mg/kg	0.1	-	<0.1	-	-	-
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	-	<0.1	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	-	<10	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	<0.5	-	-	-
Vinyl acetate	mg/kg	10	-	<10	-	-	-
MEK (2-butanone)	mg/kg	10	-	<10	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	<1	-	-	-
2-hexanone (MBK)	mg/kg	5	-	<5	-	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	-	<0.1	-	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	-	<0.5	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	**91**	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	**112**	-	-	-
d8-toluene (Surrogate)	%	-	-	**95**	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	**83**	-	-	-
Totals							
Total Xylenes*	mg/kg	0.3	-	<0.3	-	-	-
Total BTEX*	mg/kg	-	-	**0**	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-
Trihalomethanes							
Chloroform	mg/kg	0.1	-	<0.1	-	-	-
Bromodichloromethane	mg/kg	0.1	-	<0.1	-	-	-
Chlorodibromomethane	mg/kg	0.1	-	<0.1	-	-	-
Bromoform	mg/kg	0.1	-	<0.1	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	-	<20	-	-
Benzene	mg/kg	0.1	<0.1	-	<0.1	-	-
Toluene	mg/kg	0.1	<0.1	-	<0.1	-	-
Ethylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	-
m/p-xylene	mg/kg	1	<1	-	<1	-	-
o-xylene	mg/kg	0.5	<0.5	-	<0.5	-	-
Total Xylenes	mg/kg	0.3	<0.3	-	<0.3	-	-
Total BTEX*	mg/kg	2.7	<2.7	-	<2.7	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE100735.001 Soil 14 Jun 2011 BH5_1.5-1.6	SE100735.002 Soil 14 Jun 2011 BH5_2.5-2.6	SE100735.003 Soil 14 Jun 2011 BH5_4-4.1	SE100735.004 Soil 15 Jun 2011 BH5_8.5m	SE100735.005 Soil 15 Jun 2011 BH5_14.5m
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434 (continued)								
Surrogates								
Trifluorotoluene (Surrogate)	%	-		**101**	-	**103**	-	-
Dibromofluoromethane (Surrogate)	%	-		-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-		-	-	-	-	-
d8-toluene (Surrogate)	%	-		-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-		-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403								
TRH C10-C14	mg/kg	20		<20	-	<20	-	-
TRH C15-C28	mg/kg	50		<50	-	<50	-	-
TRH C29-C36	mg/kg	50		<50	-	<50	-	-
Surrogates								
TRH (Surrogate)	%	-		-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420								
Naphthalene	mg/kg	0.1		<0.1	-	<0.1	-	-
Acenaphthylene	mg/kg	0.1		<0.1	-	<0.1	-	-
Acenaphthene	mg/kg	0.1		<0.1	-	<0.1	-	-
Fluorene	mg/kg	0.1		<0.1	-	<0.1	-	-
Phenanthrene	mg/kg	0.1		**0.2**	-	<0.1	-	-
Anthracene	mg/kg	0.1		**0.1**	-	<0.1	-	-
Fluoranthene	mg/kg	0.1		**0.5**	-	<0.1	-	-
Pyrene	mg/kg	0.1		**0.5**	-	<0.1	-	-
Benzo(a)anthracene	mg/kg	0.1		**0.2**	-	<0.1	-	-
Chrysene	mg/kg	0.1		**0.2**	-	<0.1	-	-
Benzo(b)fluoranthene	mg/kg	0.1		**0.5**	-	<0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.1		**0.4**	-	<0.1	-	-
Benzo(a)pyrene	mg/kg	0.05		**0.24**	-	<0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		**0.1**	-	<0.1	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1		<0.1	-	<0.1	-	-
Benzo(ghi)perylene	mg/kg	0.1		**0.1**	-	<0.1	-	-
Total PAH	mg/kg	1.75		**2.2**	-	<1.8↑	-	-
Surrogates								
d5-nitrobenzene (Surrogate)	%	-		**112**	-	**113**	-	-
2-fluorobiphenyl (Surrogate)	%	-		**109**	-	**108**	-	-
d14-p-terphenyl (Surrogate)	%	-		**83**	-	**84**	-	-
Field pH for Acid Sulphate Soil Method: AN104								
PHf	pH Units	-		-	-	-	**8.3**	**6.2**
PHfox	pH Units	-		-	-	-	**2.3**	**6.9**
Reaction*	No unit	-		-	-	-	X	X
pH Difference*	pH Units	-10		-	-	-	**6.0**	**-0.7**
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320								
Arsenic, As	mg/kg	3		**4**	-	**6**	-	-
Cadmium, Cd	mg/kg	0.3		<0.3	-	<0.3	-	-
Chromium, Cr	mg/kg	0.3		**9.8**	-	**11**	-	-
Copper, Cu	mg/kg	0.5		**26**	-	**14**	-	-
Lead, Pb	mg/kg	1		**57**	-	**37**	-	-
Nickel, Ni	mg/kg	0.5		**13**	-	**5.7**	-	-
Zinc, Zn	mg/kg	0.5		**96**	-	**25**	-	-

Parameter	Units	LOR	Sample Number: SE100735.001 Sample Matrix: Soil Sample Date: 14 Jun 2011 Sample Name: BH5_1.5-1.6	SE100735.002 Soil 14 Jun 2011 BH5_2.5-2.6	SE100735.003 Soil 14 Jun 2011 BH5_4-4.1	SE100735.004 Soil 15 Jun 2011 BH5_8.5m	SE100735.005 Soil 15 Jun 2011 BH5_14.5m
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	**0.24**	-	**0.23**	-	-
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	No	-	No	-	-
Moisture Content Method: AN234							
% Moisture	%	0.5	**15**	**18**	**23**	**16**	**22**

Parameter	Units	LOR	Sample Number: SE100735.006 Sample Matrix: Soil Sample Date: 14 Jun 2011 Sample Name: BH8_0.5-0.6	SE100735.007 Soil 15 Jun 2011 BH9_0.5-0.6	SE100735.008 Soil 16 Jun 2011 BH17_1-1.1	SE100735.009 Soil 16 Jun 2011 BH17_2-2.1	SE100735.010 Soil 16 Jun 2011 BH17_5-5.1
VOC's in Soil Method: AN433/AN434							
Fumigants							
2,2-dichloropropane	mg/kg	0.1	-	-	-	-	-
1,2-dichloropropane	mg/kg	0.1	-	-	-	-	-
cis-1,3-dichloropropene	mg/kg	0.1	-	-	-	-	-
trans-1,3-dichloropropene	mg/kg	0.1	-	-	-	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1	-	-	-	-	-
Halogenated Aliphatics							
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-	-	-	-	-
Chloromethane	mg/kg	1	-	-	-	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-	-	-	-	-
Bromomethane	mg/kg	1	-	-	-	-	-
Chloroethane	mg/kg	1	-	-	-	-	-
Trichlorofluoromethane	mg/kg	1	-	-	-	-	-
Iodomethane	mg/kg	5	-	-	-	-	-
1,1-dichloroethene	mg/kg	0.1	-	-	-	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-	-	-	-	-
Allyl chloride	mg/kg	0.1	-	-	-	-	-
trans-1,2-dichloroethene	mg/kg	0.1	-	-	-	-	-
1,1-dichloroethane	mg/kg	0.1	-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.1	-	-	-	-	-
Bromochloromethane	mg/kg	0.1	-	-	-	-	-
1,2-dichloroethane	mg/kg	0.1	-	-	-	-	-
1,1,1-trichloroethane	mg/kg	0.1	-	-	-	-	-
1,1-dichloropropene	mg/kg	0.1	-	-	-	-	-
Carbon tetrachloride	mg/kg	0.1	-	-	-	-	-
Dibromomethane	mg/kg	0.1	-	-	-	-	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	-	-	-	-	-
1,1,2-trichloroethane	mg/kg	0.1	-	-	-	-	-
1,3-dichloropropane	mg/kg	0.1	-	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-	-	-	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-	-	-	-	-
cis-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-	-	-	-	-
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100735.006 Sample Matrix: Soil Sample Date: 14 Jun 2011 Sample Name: BH8_0.5-0.6	SE100735.007 Soil 15 Jun 2011 BH9_0.5-0.6	SE100735.008 Soil 16 Jun 2011 BH17_1-1.1	SE100735.009 Soil 16 Jun 2011 BH17_2-2.1	SE100735.010 Soil 16 Jun 2011 BH17_5-5.1
VOC's in Soil Method: AN433/AN434 (continued)							
Halogenated Aromatics							
Chlorobenzene	mg/kg	0.1	-	-	-	-	-
Bromobenzene	mg/kg	0.1	-	-	-	-	-
2-chlorotoluene	mg/kg	0.1	-	-	-	-	-
4-chlorotoluene	mg/kg	0.1	-	-	-	-	-
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	-	-
Monocyclic Aromatic Hydrocarbons							
Benzene	mg/kg	0.1	-	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	-	-
n-propylbenzene	mg/kg	0.1	-	-	-	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
tert-butylbenzene	mg/kg	0.1	-	-	-	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	-	-
sec-butylbenzene	mg/kg	0.1	-	-	-	-	-
p-isopropyltoluene	mg/kg	0.1	-	-	-	-	-
n-butylbenzene	mg/kg	0.1	-	-	-	-	-
Nitrogenous Compounds							
Acrylonitrile	mg/kg	0.1	-	-	-	-	-
Oxygenated Compounds							
Acetone (2-propanone)	mg/kg	10	-	-	-	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-	-	-	-	-
Vinyl acetate	mg/kg	10	-	-	-	-	-
MEK (2-butanone)	mg/kg	10	-	-	-	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	-	-
2-hexanone (MBK)	mg/kg	5	-	-	-	-	-
Polycyclic VOCs							
Naphthalene	mg/kg	0.1	-	-	-	-	-
Sulphonated Compounds							
Carbon disulfide	mg/kg	0.5	-	-	-	-	-
Surrogates							
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
Totals							
Total Xylenes*	mg/kg	0.3	-	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-	-
Total VOC*	mg/kg	24	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE100735.006 Sample Matrix: Soil Sample Date: 14 Jun 2011 Sample Name: BH8_0.5-0.6	SE100735.007 Soil 15 Jun 2011 BH9_0.5-0.6	SE100735.008 Soil 16 Jun 2011 BH17_1-1.1	SE100735.009 Soil 16 Jun 2011 BH17_2-2.1	SE100735.010 Soil 16 Jun 2011 BH17_5-5.1
VOC's in Soil Method: AN433/AN434 (continued)							
Trihalomethanes							
Chloroform	mg/kg	0.1	-	-	-	-	-
Bromodichloromethane	mg/kg	0.1	-	-	-	-	-
Chlorodibromomethane	mg/kg	0.1	-	-	-	-	-
Bromoform	mg/kg	0.1	-	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434							
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	1	<1	<1	<1	<1	<1
o-xylene	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**108**	**104**	**95**	**123**	**104**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403							
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	50	**89**	**54**	<50	<50	<50
TRH C29-C36	mg/kg	50	**76**	**53**	<50	<50	<50
Surrogates							
TRH (Surrogate)	%	-	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420							
Naphthalene	mg/kg	0.1	**0.1**	<0.1	<0.1	<0.1	-
Acenaphthylene	mg/kg	0.1	**0.5**	**0.2**	<0.1	<0.1	-
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	-
Fluorene	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	-
Phenanthrene	mg/kg	0.1	**2.1**	**0.5**	**0.1**	<0.1	-
Anthracene	mg/kg	0.1	**0.7**	**0.2**	<0.1	<0.1	-
Fluoranthene	mg/kg	0.1	**2.9**	**1.3**	**0.2**	<0.1	-
Pyrene	mg/kg	0.1	**2.8**	**1.4**	**0.2**	<0.1	-
Benzo(a)anthracene	mg/kg	0.1	**1.6**	**0.8**	<0.1	<0.1	-
Chrysene	mg/kg	0.1	**1.4**	**0.7**	<0.1	<0.1	-
Benzo(b)fluoranthene	mg/kg	0.1	**2.0**	**1.3**	**0.1**	<0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	**0.9**	**0.5**	<0.1	<0.1	-
Benzo(a)pyrene	mg/kg	0.05	**1.5**	**0.92**	<0.05	<0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.8**	**0.5**	<0.1	<0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	**0.1**	<0.1	<0.1	<0.1	-
Benzo(ghi)perylene	mg/kg	0.1	**1.0**	**0.7**	<0.1	<0.1	-
Total PAH	mg/kg	1.75	**16**	**7.1**	<1.8↑	<1.8↑	-

Parameter	Units	LOR	Sample Number: SE100735.006 Sample Matrix: Soil Sample Date: 14 Jun 2011 Sample Name: BH8_0.5-0.6	SE100735.007 Soil 15 Jun 2011 BH9_0.5-0.6	SE100735.008 Soil 16 Jun 2011 BH17_1-1.1	SE100735.009 Soil 16 Jun 2011 BH17_2-2.1	SE100735.010 Soil 16 Jun 2011 BH17_5-5.1
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)							
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**112**	**115**	**107**	**111**	-
2-fluorobiphenyl (Surrogate)	%	-	**108**	**112**	**103**	**107**	-
d14-p-terphenyl (Surrogate)	%	-	**85**	**84**	**82**	**83**	-
Field pH for Acid Sulphate Soil Method: AN104							
PHf	pH Units	-	-	-	-	-	**8.1**
PHfox	pH Units	-	-	-	-	-	**2.9**
Reaction*	No unit	-	-	-	-	-	XX
pH Difference*	pH Units	-10	-	-	-	-	**5.3**
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320							
Arsenic, As	mg/kg	3	**5**	**4**	**6**	**7**	<3
Cadmium, Cd	mg/kg	0.3	**0.8**	**0.3**	**0.6**	**0.6**	<0.3
Chromium, Cr	mg/kg	0.3	**12**	**12**	**14**	**11**	**9.5**
Copper, Cu	mg/kg	0.5	**39**	**30**	**72**	**46**	**7.3**
Lead, Pb	mg/kg	1	**130**	**66**	**240**	**140**	**15**
Nickel, Ni	mg/kg	0.5	**7.2**	**19**	**6.7**	**2.7**	**3.5**
Zinc, Zn	mg/kg	0.5	**190**	**93**	**340**	**110**	**19**
Mercury in Soil Method: AN312							
Mercury	mg/kg	0.05	**0.27**	**0.12**	**4.9**	**0.44**	**0.07**
Fibre Identification in soil Method: AN602							
FibreID							
Asbestos Detected	No unit	-	No	No	No	No	-
Moisture Content Method: AN234							
% Moisture	%	0.5	**8.1**	**9.0**	**24**	**23**	**18**

Parameter	Units	LOR	Sample Number: SE100735.011 Sample Matrix: Soil Sample Date: 16 Jun 2011 Sample Name: BH17_8-8.1
VOC's in Soil Method: AN433/AN434			
Fumigants			
2,2-dichloropropane	mg/kg	0.1	-
1,2-dichloropropane	mg/kg	0.1	-
cis-1,3-dichloropropene	mg/kg	0.1	-
trans-1,3-dichloropropene	mg/kg	0.1	-
1,2-dibromoethane (EDB)	mg/kg	0.1	-
Halogenated Aliphatics			
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-
Chloromethane	mg/kg	1	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-
Bromomethane	mg/kg	1	-
Chloroethane	mg/kg	1	-
Trichlorofluoromethane	mg/kg	1	-
Iodomethane	mg/kg	5	-
1,1-dichloroethene	mg/kg	0.1	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-
Allyl chloride	mg/kg	0.1	-
trans-1,2-dichloroethene	mg/kg	0.1	-
1,1-dichloroethane	mg/kg	0.1	-

Parameter	Units	LOR	Sample Number SE100735.011 Sample Matrix Soil Sample Date 16 Jun 2011 Sample Name BH17_8-8.1
VOC's in Soil Method: AN433/AN434 (continued)			
cis-1,2-dichloroethene	mg/kg	0.1	-
Bromochloromethane	mg/kg	0.1	-
1,2-dichloroethane	mg/kg	0.1	-
1,1,1-trichloroethane	mg/kg	0.1	-
1,1-dichloropropene	mg/kg	0.1	-
Carbon tetrachloride	mg/kg	0.1	-
Dibromomethane	mg/kg	0.1	-
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	-
1,1,2-trichloroethane	mg/kg	0.1	-
1,3-dichloropropane	mg/kg	0.1	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-
cis-1,4-dichloro-2-butene	mg/kg	1	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-
1,2,3-trichloropropane	mg/kg	0.1	-
trans-1,4-dichloro-2-butene	mg/kg	1	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-
Hexachlorobutadiene	mg/kg	0.1	-
Halogenated Aromatics			
Chlorobenzene	mg/kg	0.1	-
Bromobenzene	mg/kg	0.1	-
2-chlorotoluene	mg/kg	0.1	-
4-chlorotoluene	mg/kg	0.1	-
1,3-dichlorobenzene	mg/kg	0.1	-
1,4-dichlorobenzene	mg/kg	0.1	-
1,2-dichlorobenzene	mg/kg	0.1	-
1,2,4-trichlorobenzene	mg/kg	0.1	-
1,2,3-trichlorobenzene	mg/kg	0.1	-
Monocyclic Aromatic Hydrocarbons			
Benzene	mg/kg	0.1	-
Toluene	mg/kg	0.1	-
Ethylbenzene	mg/kg	0.1	-
m/p-xylene	mg/kg	0.2	-
Styrene (Vinyl benzene)	mg/kg	0.1	-
o-xylene	mg/kg	0.1	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-
n-propylbenzene	mg/kg	0.1	-
1,3,5-trimethylbenzene	mg/kg	0.1	-
tert-butylbenzene	mg/kg	0.1	-
1,2,4-trimethylbenzene	mg/kg	0.1	-
sec-butylbenzene	mg/kg	0.1	-
p-isopropyltoluene	mg/kg	0.1	-
n-butylbenzene	mg/kg	0.1	-

Parameter	Units	LOR	Sample Number SE100735.011 Sample Matrix Soil Sample Date 16 Jun 2011 Sample Name BH17_8-8.1
VOC's in Soil Method: AN433/AN434 (continued)			
Nitrogenous Compounds			
Acrylonitrile	mg/kg	0.1	-
Oxygenated Compounds			
Acetone (2-propanone)	mg/kg	10	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.5	-
Vinyl acetate	mg/kg	10	-
MEK (2-butanone)	mg/kg	10	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-
2-hexanone (MBK)	mg/kg	5	-
Polycyclic VOCs			
Naphthalene	mg/kg	0.1	-
Sulphonated Compounds			
Carbon disulfide	mg/kg	0.5	-
Surrogates			
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
Totals			
Total Xylenes*	mg/kg	0.3	-
Total BTEX*	mg/kg	-	-
Total VOC*	mg/kg	24	-
Trihalomethanes			
Chloroform	mg/kg	0.1	-
Bromodichloromethane	mg/kg	0.1	-
Chlorodibromomethane	mg/kg	0.1	-
Bromoform	mg/kg	0.1	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434			
TRH C6-C9	mg/kg	20	<20
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	1	<1
o-xylene	mg/kg	0.5	<0.5
Total Xylenes	mg/kg	0.3	<0.3
Total BTEX*	mg/kg	2.7	<2.7
Surrogates			
Trifluorotoluene (Surrogate)	%	-	**103**
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403			
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	<50
TRH C29-C36	mg/kg	50	<50

Parameter	Units	LOR	Sample Number SE100735.011 Sample Matrix Soil Sample Date 16 Jun 2011 Sample Name BH17_8-8.1
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 (continued)			
Surrogates			
TRH (Surrogate)	%	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420			
Naphthalene	mg/kg	0.1	-
Acenaphthylene	mg/kg	0.1	-
Acenaphthene	mg/kg	0.1	-
Fluorene	mg/kg	0.1	-
Phenanthrene	mg/kg	0.1	-
Anthracene	mg/kg	0.1	-
Fluoranthene	mg/kg	0.1	-
Pyrene	mg/kg	0.1	-
Benzo(a)anthracene	mg/kg	0.1	-
Chrysene	mg/kg	0.1	-
Benzo(b)fluoranthene	mg/kg	0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	-
Benzo(a)pyrene	mg/kg	0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-
Benzo(ghi)perylene	mg/kg	0.1	-
Total PAH	mg/kg	1.75	-
Surrogates			
d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-
Field pH for Acid Sulphate Soil Method: AN104			
PHf	pH Units	-	**7.5**
PHfox	pH Units	-	**3.7**
Reaction*	No unit	-	XX
pH Difference*	pH Units	-10	**3.8**
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320			
Arsenic, As	mg/kg	3	**16**
Cadmium, Cd	mg/kg	0.3	**0.5**
Chromium, Cr	mg/kg	0.3	**13**
Copper, Cu	mg/kg	0.5	**8.6**
Lead, Pb	mg/kg	1	**13**
Nickel, Ni	mg/kg	0.5	**2.5**
Zinc, Zn	mg/kg	0.5	**27**
Mercury in Soil Method: AN312			
Mercury	mg/kg	0.05	<0.05
Fibre Identification in soil Method: AN602			
FibreID			
Asbestos Detected	No unit	-	-

Parameter	Units	LOR	Sample Number SE100735.011 Sample Matrix Soil Sample Date 16 Jun 2011 Sample Name BH17_8-8.1
Moisture Content Method: AN234			
% Moisture	%	0.5	**17**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Field pH for Acid Sulphate Soil Method: ME-(AU)-[ENV]AN104

Parameter	QC Reference	Units	LOR	LCS %Recovery
PHf	LB002905	pH Units	-	NA

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB002933	mg/kg	0.05	<0.05	0 - 6%	111%	89%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002929	mg/kg	3	<3	0%	99%	
Cadmium, Cd	LB002929	mg/kg	0.3	<0.3	8%	100%	
Chromium, Cr	LB002929	mg/kg	0.3	<0.3	2%	99%	
Copper, Cu	LB002929	mg/kg	0.5	<0.5	4%	103%	
Lead, Pb	LB002929	mg/kg	1	<1	0%	98%	83%
Nickel, Ni	LB002929	mg/kg	0.5	<0.5	8%	100%	
Zinc, Zn	LB002929	mg/kg	0.5	<0.5	8%	97%	

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Naphthalene	LB002808	mg/kg	0.1	<0.1	0%	89%
Acenaphthylene	LB002808	mg/kg	0.1	<0.1	0%	95%
Acenaphthene	LB002808	mg/kg	0.1	<0.1	0%	96%
Fluorene	LB002808	mg/kg	0.1	<0.1	0%	NA
Phenanthrene	LB002808	mg/kg	0.1	<0.1	59%	92%
Anthracene	LB002808	mg/kg	0.1	<0.1	0%	96%
Fluoranthene	LB002808	mg/kg	0.1	<0.1	59%	89%
Pyrene	LB002808	mg/kg	0.1	<0.1	63%	92%
Benzo(a)anthracene	LB002808	mg/kg	0.1	<0.1	42%	NA
Chrysene	LB002808	mg/kg	0.1	<0.1	67%	NA
Benzo(b)fluoranthene	LB002808	mg/kg	0.1	<0.1	97%	NA
Benzo(k)fluoranthene	LB002808	mg/kg	0.1	<0.1	117%	NA
Benzo(a)pyrene	LB002808	mg/kg	0.05	<0.05	59%	89%
Indeno(1,2,3-cd)pyrene	LB002808	mg/kg	0.1	<0.1	0%	NA
Dibenzo(a&h)anthracene	LB002808	mg/kg	0.1	<0.1	0%	NA
Benzo(ghi)perylene	LB002808	mg/kg	0.1	<0.1	18%	NA
Total PAH	LB002808	mg/kg	1.75	<1.8	44%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002808	%	-	105%	2%	110%
2-fluorobiphenyl (Surrogate)	LB002808	%	-	101%	1%	104%
d14-p-terphenyl (Surrogate)	LB002808	%	-	79%	0%	81%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C10-C14	LB002808	mg/kg	20	<20	0%	110%
TRH C15-C28	LB002808	mg/kg	50	<50	0%	115%
TRH C29-C36	LB002808	mg/kg	50	<50	0%	108%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Fumigants

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
2,2-dichloropropane	LB002813	mg/kg	0.1	<0.1	NA
1,2-dichloropropane	LB002813	mg/kg	0.1	<0.1	NA
cis-1,3-dichloropropene	LB002813	mg/kg	0.1	<0.1	NA
trans-1,3-dichloropropene	LB002813	mg/kg	0.1	<0.1	NA
1,2-dibromoethane (EDB)	LB002813	mg/kg	0.1	<0.1	NA

Halogenated Aliphatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dichlorodifluoromethane (CFC-12)	LB002813	mg/kg	1	<1	NA
Chloromethane	LB002813	mg/kg	1	<1	NA
Vinyl chloride (Chloroethene)	LB002813	mg/kg	0.1	<0.1	NA
Bromomethane	LB002813	mg/kg	1	<1	NA
Chloroethane	LB002813	mg/kg	1	<1	NA
Trichlorofluoromethane	LB002813	mg/kg	1	<1	NA
Iodomethane	LB002813	mg/kg	5	<5	NA
1,1-dichloroethene	LB002813	mg/kg	0.1	<0.1	70%
Dichloromethane (Methylene chloride)	LB002813	mg/kg	0.5	<0.5	NA
Allyl chloride	LB002813	mg/kg	0.1	<0.1	NA
trans-1,2-dichloroethene	LB002813	mg/kg	0.1	<0.1	NA
1,1-dichloroethane	LB002813	mg/kg	0.1	<0.1	NA
cis-1,2-dichloroethene	LB002813	mg/kg	0.1	<0.1	NA
Bromochloromethane	LB002813	mg/kg	0.1	<0.1	NA
1,2-dichloroethane	LB002813	mg/kg	0.1	<0.1	95%
1,1,1-trichloroethane	LB002813	mg/kg	0.1	<0.1	NA
1,1-dichloropropene	LB002813	mg/kg	0.1	<0.1	NA
Carbon tetrachloride	LB002813	mg/kg	0.1	<0.1	NA
Dibromomethane	LB002813	mg/kg	0.1	<0.1	NA
Trichloroethene (Trichloroethylene -TCE)	LB002813	mg/kg	0.1	<0.1	87%
1,1,2-trichloroethane	LB002813	mg/kg	0.1	<0.1	NA
1,3-dichloropropane	LB002813	mg/kg	0.1	<0.1	NA
Tetrachloroethene (Perchloroethylene,PCE)	LB002813	mg/kg	0.1	<0.1	NA
1,1,1,2-tetrachloroethane	LB002813	mg/kg	0.1	<0.1	NA
cis-1,4-dichloro-2-butene	LB002813	mg/kg	1	<1	NA
1,1,2,2-tetrachloroethane	LB002813	mg/kg	0.1	<0.1	NA
1,2,3-trichloropropane	LB002813	mg/kg	0.1	<0.1	NA
trans-1,4-dichloro-2-butene	LB002813	mg/kg	1	<1	NA
1,2-dibromo-3-chloropropane	LB002813	mg/kg	0.1	<0.1	NA
Hexachlorobutadiene	LB002813	mg/kg	0.1	<0.1	NA

Halogenated Aromatics

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chlorobenzene	LB002813	mg/kg	0.1	<0.1	111%
Bromobenzene	LB002813	mg/kg	0.1	<0.1	NA
2-chlorotoluene	LB002813	mg/kg	0.1	<0.1	NA
4-chlorotoluene	LB002813	mg/kg	0.1	<0.1	NA
1,3-dichlorobenzene	LB002813	mg/kg	0.1	<0.1	NA
1,4-dichlorobenzene	LB002813	mg/kg	0.1	<0.1	NA
1,2-dichlorobenzene	LB002813	mg/kg	0.1	<0.1	NA
1,2,4-trichlorobenzene	LB002813	mg/kg	0.1	<0.1	NA
1,2,3-trichlorobenzene	LB002813	mg/kg	0.1	<0.1	NA

Monocyclic Aromatic Hydrocarbons

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Benzene	LB002813	mg/kg	0.1	<0.1	89%
Toluene	LB002813	mg/kg	0.1	<0.1	105%
Ethylbenzene	LB002813	mg/kg	0.1	<0.1	103%
m/p-xylene	LB002813	mg/kg	0.2	<0.2	112%
Styrene (Vinyl benzene)	LB002813	mg/kg	0.1	<0.1	NA
o-xylene	LB002813	mg/kg	0.1	<0.1	105%
Isopropylbenzene (Cumene)	LB002813	mg/kg	0.1	<0.1	NA
n-propylbenzene	LB002813	mg/kg	0.1	<0.1	NA
1,3,5-trimethylbenzene	LB002813	mg/kg	0.1	<0.1	NA
tert-butylbenzene	LB002813	mg/kg	0.1	<0.1	NA
1,2,4-trimethylbenzene	LB002813	mg/kg	0.1	<0.1	NA
sec-butylbenzene	LB002813	mg/kg	0.1	<0.1	NA
p-isopropyltoluene	LB002813	mg/kg	0.1	<0.1	NA
n-butylbenzene	LB002813	mg/kg	0.1	<0.1	NA

Nitrogenous Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acrylonitrile	LB002813	mg/kg	0.1	<0.1	NA

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Acetone (2-propanone)	LB002813	mg/kg	10	<10	NA
MtBE (Methyl-tert-butyl ether)	LB002813	mg/kg	0.5	<0.5	NA
Vinyl acetate	LB002813	mg/kg	10	<10	NA
MEK (2-butanone)	LB002813	mg/kg	10	<10	NA
MIBK (4-methyl-2-pentanone)	LB002813	mg/kg	1	<1	NA
2-hexanone (MBK)	LB002813	mg/kg	5	<5	NA

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB002813	mg/kg	0.1	<0.1	NA

Sulphonated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Carbon disulfide	LB002813	mg/kg	0.5	<0.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Dibromofluoromethane (Surrogate)	LB002813	%	-	95%	93%
d4-1,2-dichloroethane (Surrogate)	LB002813	%	-	111%	106%
d8-toluene (Surrogate)	LB002813	%	-	95%	92%
Bromofluorobenzene (Surrogate)	LB002813	%	-	84%	99%

Totals

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Total Xylenes*	LB002813	mg/kg	0.3	<0.3	NA
Total BTEX*	LB002813	mg/kg	-	0	NA

Trihalomethanes

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chloroform	LB002813	mg/kg	0.1	<0.1	72%
Bromodichloromethane	LB002813	mg/kg	0.1	<0.1	NA

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
Chlorodibromomethane	LB002813	mg/kg	0.1	<0.1	NA
Bromoform	LB002813	mg/kg	0.1	<0.1	NA

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB002813	mg/kg	20	<20	0%	98%	125%
Benzene	LB002813	mg/kg	0.1	<0.1	0%	67%	121%
Toluene	LB002813	mg/kg	0.1	<0.1	0%	68%	124%
Ethylbenzene	LB002813	mg/kg	0.1	<0.1	0%	70%	128%
m/p-xylene	LB002813	mg/kg	1	<1	0%	68%	128%
o-xylene	LB002813	mg/kg	0.5	<0.5	0%	72%	126%
Total Xylenes	LB002813	mg/kg	0.3	<0.3	0%	69%	127%
Total BTEX*	LB002813	mg/kg	2.7	<2.7	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB002813	%	-	127%	5 - 10%	122%	99%

METHOD	METHODOLOGY SUMMARY
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN104	pHF is determined on an extract of approximately 2g of as received sample in approximately 10 mL of deionised water with pH determined after standing 30 minutes.
AN104	pHFox is determined on an extract of approximately 2g of as received sample with a few mLs of 30% hydrogen peroxide (adjusted to pH 4.5 to 5.5) with the extract reaction being rated from slight to extreme, with pH determined after reaction is complete and extract has cooled. Referenced to ASS Laboratory Methods Guidelines, method 23Af-Bf, 2004.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLOC24303AA - Additional**
Order Number	**89333-89335**
Samples	1

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100735B R0
Report Number	0000004777
Date Reported	04 Aug 2011
Date Received	21 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

Site : SMCEC

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Parameter	Units	LOR	Sample Number SE100735B.008 Sample Matrix Soil Sample Date 16 Jun 2011 Sample Name BH17_1-1.1
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**8.9**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.1**
Mercury in Soil by TCLP Extract Method: AN311/AN312			
Mercury	mg/L	0.0001	<0.0001

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Mercury in Soil by TCLP Extract **Method: ME-(AU)-[ENV]AN311/AN312**

Parameter	QC Reference	Units	LOR	LCS %Recovery
Mercury	LB003713	mg/L	0.0001	NA

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA**
Order Number	**92503**
Samples	4

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100739 R0
Report Number	0000003603
Date Reported	27/06/2011 7:00:37PM
Date Received	22 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Ly Kim Ha
Organics Supervisor

Ravee Sivasubramaniam
Hygienist

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE100739.001	BH15_(1.0-1.1m)	Soil	45g. Soil, Rocks	21 Jun 2011	No Asbestos Detected Organic Fibres Detected	
SE100739.002	BH15_(2.5-2.6m)	Soil	42g. Clay, Soil, Rocks	21 Jun 2011	No Asbestos Detected Organic Fibres Detected	

METHOD SUMMARY

SE100739 R0

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed Not Required
Crocidolite	-	Blue Asbestos	*	-	Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:
"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1 000 to 1 in 10 000 parts by weight, equivalent to 1 to 0.1 g/kg."

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australia Department of Health Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia-May 2009.

Sampled by the client

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

Where reported: 'No Asbestos Detected':
No Asbestos detected by polarized light microscopy, including dispersion staining

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA**
Order Number	**92503**
Samples	4

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100739 R0
Report Number	0000003602
Date Reported	27 Jun 2011
Date Received	22 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.

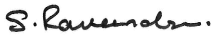
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Ly Kim Ha
Organics Supervisor



Ravee Sivasubramaniam
Hygienist

Parameter	Units	LOR	Sample Number: SE100739.001 Sample Matrix: Soil Sample Date: 21 Jun 2011 Sample Name: BH15_(1.0-1.1m)	SE100739.002 Soil 21 Jun 2011 BH15_(2.5-2.6m)	SE100739.003 Soil 21 Jun 2011 BH15_(4.0-4.1m)	SE100739.004 Soil 21 Jun 2011 BH15_(7.5-7.6m)
Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434						
TRH C6-C9	mg/kg	20	<20	<20	-	-
Benzene	mg/kg	0.1	<0.1	<0.1	-	-
Toluene	mg/kg	0.1	<0.1	<0.1	-	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	-	-
m/p-xylene	mg/kg	1	<1	<1	-	-
o-xylene	mg/kg	0.5	<0.5	<0.5	-	-
Total Xylenes	mg/kg	0.3	<0.3	<0.3	-	-
Total BTEX*	mg/kg	2.7	<2.7	<2.7	-	-
Surrogates						
Trifluorotoluene (Surrogate)	%	-	**60**	**76**	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403						
TRH C10-C14	mg/kg	20	<20	<20	-	-
TRH C15-C28	mg/kg	50	<50	<50	-	-
TRH C29-C36	mg/kg	50	<50	<50	-	-
Surrogates						
TRH (Surrogate)	%	-	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420						
Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	-	-
Acenaphthene	mg/kg	0.1	<0.1	<0.1	-	-
Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
Phenanthrene	mg/kg	0.1	**0.1**	<0.1	-	-
Anthracene	mg/kg	0.1	<0.1	<0.1	-	-
Fluoranthene	mg/kg	0.1	**0.2**	<0.1	-	-
Pyrene	mg/kg	0.1	**0.3**	<0.1	-	-
Benzo(a)anthracene	mg/kg	0.1	**0.2**	<0.1	-	-
Chrysene	mg/kg	0.1	**0.1**	<0.1	-	-
Benzo(b)fluoranthene	mg/kg	0.1	**0.1**	<0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
Benzo(a)pyrene	mg/kg	0.05	**0.06**	<0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
Total PAH	mg/kg	1.75	<1.8↑	<1.8↑	-	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	**77**	**79**	-	-
2-fluorobiphenyl (Surrogate)	%	-	**77**	**77**	-	-
d14-p-terphenyl (Surrogate)	%	-	**79**	**91**	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100739.001 Soil 21 Jun 2011 BH15_(1.0-1.1m)	SE100739.002 Soil 21 Jun 2011 BH15_(2.5-2.6m)	SE100739.003 Soil 21 Jun 2011 BH15_(4.0-4.1m)	SE100739.004 Soil 21 Jun 2011 BH15_(7.5-7.6m)
Field pH for Acid Sulphate Soil Method: AN104						
PHf	pH Units	-	-	-	**8.4**	**7.2**
PHfox	pH Units	-	-	-	**6.9**	**6.9**
Reaction*	No unit	-	-	-	XX	XX
pH Difference*	pH Units	-10	-	-	**1.5**	**0.3**
Metals in Soil by ICPOES from EPA 200.8 Digest (SYDNEY) Method: AN040/AN320						
Arsenic, As	mg/kg	3	**6**	**11**	-	-
Cadmium, Cd	mg/kg	0.3	<0.3	**0.5**	-	-
Chromium, Cr	mg/kg	0.3	**12**	**31**	-	-
Copper, Cu	mg/kg	0.5	**61**	**79**	-	-
Lead, Pb	mg/kg	1	**110**	**300**	-	-
Nickel, Ni	mg/kg	0.5	**3.7**	**14**	-	-
Zinc, Zn	mg/kg	0.5	**100**	**100**	-	-
Mercury in Soil Method: AN312						
Mercury	mg/kg	0.05	**0.74**	**2.2**	-	-
Fibre Identification in soil Method: AN602						
FibreID						
Asbestos Detected	No unit	-	No	No	-	-
Moisture Content Method: AN234						
% Moisture	%	0.5	**16**	**32**	**23**	**16**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Field pH for Acid Sulphate Soil Method: ME-(AU)-[ENV]AN104

Parameter	QC Reference	Units	LOR	DUP %RPD	LCS %Recovery
PHf	LB002906	pH Units	-	1%	NA
PHfox	LB002906	pH Units	-	3%	

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB002898	mg/kg	0.05	<0.05	19%	109%	91%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB002896	mg/kg	3	<3	8%	99%	90%
Cadmium, Cd	LB002896	mg/kg	0.3	<0.3	0%	101%	95%
Chromium, Cr	LB002896	mg/kg	0.3	<0.3	19%	102%	97%
Copper, Cu	LB002896	mg/kg	0.5	<0.5	5%	103%	98%
Lead, Pb	LB002896	mg/kg	1	<1	1%	100%	76%
Nickel, Ni	LB002896	mg/kg	0.5	<0.5	4%	99%	93%
Zinc, Zn	LB002896	mg/kg	0.5	<0.5	1%	99%	41%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Naphthalene	LB002805	mg/kg	0.1	<0.1	0%	122%
Acenaphthylene	LB002805	mg/kg	0.1	<0.1	NVL	117%
Acenaphthene	LB002805	mg/kg	0.1	<0.1	0%	123%
Fluorene	LB002805	mg/kg	0.1	<0.1	0%	NA
Phenanthrene	LB002805	mg/kg	0.1	<0.1	18%	117%
Anthracene	LB002805	mg/kg	0.1	<0.1	0%	122%
Fluoranthene	LB002805	mg/kg	0.1	<0.1	4%	119%
Pyrene	LB002805	mg/kg	0.1	<0.1	0%	128%
Benzo(a)anthracene	LB002805	mg/kg	0.1	<0.1	0%	NA
Chrysene	LB002805	mg/kg	0.1	<0.1	18%	NA
Benzo(b)fluoranthene	LB002805	mg/kg	0.1	<0.1	26%	NA
Benzo(k)fluoranthene	LB002805	mg/kg	0.1	<0.1	0%	NA
Benzo(a)pyrene	LB002805	mg/kg	0.05	<0.05	0%	121%
Indeno(1,2,3-cd)pyrene	LB002805	mg/kg	0.1	<0.1	0%	NA
Dibenzo(a&h)anthracene	LB002805	mg/kg	0.1	<0.1	0%	NA
Benzo(ghi)perylene	LB002805	mg/kg	0.1	<0.1	0%	NA
Total PAH	LB002805	mg/kg	1.75	<1.8	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB002805	%	-	118%	3%	113%
2-fluorobiphenyl (Surrogate)	LB002805	%	-	107%	14%	112%
d14-p-terphenyl (Surrogate)	LB002805	%	-	93%	3%	82%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C10-C14	LB002805	mg/kg	20	<20	0%	105%
TRH C15-C28	LB002805	mg/kg	50	<50	0%	103%
TRH C29-C36	LB002805	mg/kg	50	<50	0%	115%

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery	MS %Recovery
TRH C6-C9	LB002810	mg/kg	20	<20	130%	117%
Benzene	LB002810	mg/kg	0.1	<0.1	93%	118%
Toluene	LB002810	mg/kg	0.1	<0.1	95%	123%
Ethylbenzene	LB002810	mg/kg	0.1	<0.1	95%	126%
m/p-xylene	LB002810	mg/kg	1	<1	96%	125%
o-xylene	LB002810	mg/kg	0.5	<0.5	92%	125%
Total Xylenes	LB002810	mg/kg	0.3	<0.3	95%	125%
Total BTEX*	LB002810	mg/kg	2.7	<2.7	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB002810	%	-	85%	75%	61%

METHOD	METHODOLOGY SUMMARY
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analsysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN104	pHF is determined on an extract of approximately 2g of as received sample in approximately 10 mL of deionised water with pH determined after standing 30 minutes.
AN104	pHFox is determined on an extract of approximately 2g of as received sample with a few mLs of 30% hydrogen peroxide (adjusted to pH 4.5 to 5.5) with the extract reaction being rated from slight to extreme, with pH determined after reaction is complete and extract has cooled. Referenced to ASS Laboratory Methods Guidelines, method 23Af-Bf, 2004.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. Accreditation does not cover the identification of Organic or Synthetic Mineral Fibres.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA - Additional**
Order Number	**92503**
Samples	1

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100739A R0
Report Number	0000004769
Date Reported	04 Aug 2011
Date Received	22 Jun 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Parameter	Units	LOR	Sample Number SE100739A.002 Sample Matrix Soil Sample Date 21 Jun 2011 Sample Name BH15_2.5-2.6
TCLP (Toxicity Characteristic Leaching Procedure) Method: AN006			
pH 1:20	pH Units	-	**9.5**
pH 1:20 plus HCL	pH Units	-	**2.0**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.3**
Metals in Soil (TCLP) by ICPOES Method: AN320/AN321			
Lead, Pb	mg/L	0.02	**0.11**

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Metals in Soil (TCLP) by ICPOES **Method: ME-(AU)-[ENV]AN320/AN321**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lead, Pb	LB003711	mg/L	0.02	<0.020	NA

METHOD SUMMARY

SE100739A R0

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA-Syd Entertainment Centre**
Order Number	**89576**
Samples	3

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100820 R0
Report Number	0000003986
Date Reported	11 Jul 2011
Date Received	05 Jul 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Huong Crawford
Laboratory Manager

Jue Wang
Organic Chemist

Ly Kim Ha
Organics Supervisor

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100820.001 Water 04 Jul 2011 BH1	SE100820.002 Water 04 Jul 2011 TS	SE100820.003 Water 04 Jul 2011 TB
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434					
TRH C6-C9	µg/L	40	<40	-	<40
Benzene	µg/L	0.5	<0.5	[102%]	<0.5
Toluene	µg/L	0.5	<0.5	[100%]	<0.5
Ethylbenzene	µg/L	0.5	<0.5	[98%]	<0.5
m/p-xylene	µg/L	1	<1	[97%]	<1
o-xylene	µg/L	0.5	<0.5	[98%]	<0.5
Total BTEX*	µg/L	3	<3	[99%]	<3
Total Xylenes*	µg/L	1.5	<1.5	[98%]	<1.5
Surrogates					
Trifluorotoluene (Surrogate)	%	-	**73**	**68**	**69**
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403					
TRH C10-C14	µg/L	100	<100	-	-
TRH C15-C28	µg/L	200	<200	-	-
TRH C29-C36	µg/L	200	<200	-	-
Surrogates					
TRH (Surrogate)	%	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420					
Naphthalene	µg/L	0.1	<0.1	-	-
Acenaphthylene	µg/L	0.1	<0.1	-	-
Acenaphthene	µg/L	0.1	<0.1	-	-
Fluorene	µg/L	0.1	<0.1	-	-
Phenanthrene	µg/L	0.1	<0.1	-	-
Anthracene	µg/L	0.1	<0.1	-	-
Fluoranthene	µg/L	0.1	<0.1	-	-
Pyrene	µg/L	0.1	<0.1	-	-
Benzo(a)anthracene	µg/L	0.1	<0.1	-	-
Chrysene	µg/L	0.1	<0.1	-	-
Benzo(b)fluoranthene	µg/L	0.1	<0.1	-	-
Benzo(k)fluoranthene	µg/L	0.1	<0.1	-	-
Benzo(a)pyrene	µg/L	0.1	<0.1	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1	-	-
Benzo(ghi)perylene	µg/L	0.1	<0.1	-	-
Total PAH (18)*	µg/L	1	<1	-	-
Surrogates					
d5-nitrobenzene (Surrogate)	%	-	**106**	-	-
2-fluorobiphenyl (Surrogate)	%	-	**101**	-	-
d14-p-terphenyl (Surrogate)	%	-	**80**	-	-

Parameter	Units	LOR	Sample Number: SE100820.001 Sample Matrix: Water Sample Date: 04 Jul 2011 Sample Name: BH1	SE100820.002 Water 04 Jul 2011 TS	SE100820.003 Water 04 Jul 2011 TB
Trace Metals (Dissolved) in Water by ICPMS Method: AN318					
Arsenic, As	µg/L	1	**2**	-	-
Cadmium, Cd	µg/L	0.1	**0.2**	-	-
Chromium, Cr	µg/L	1	**7**	-	-
Copper, Cu	µg/L	1	**21**	-	-
Lead, Pb	µg/L	1	**9**	-	-
Nickel, Ni	µg/L	1	**3**	-	-
Zinc, Zn	µg/L	1	**530**	-	-
Mercury (dissolved) in Water Method: AN311/AN312					
Mercury	mg/L	0.0001	<0.0001	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Mercury	LB003152	mg/L	0.0001	<0.0001	110%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB003126	µg/L	0.1	<0.1	107%
Acenaphthylene	LB003126	µg/L	0.1	<0.1	113%
Acenaphthene	LB003126	µg/L	0.1	<0.1	107%
Fluorene	LB003126	µg/L	0.1	<0.1	NA
Phenanthrene	LB003126	µg/L	0.1	<0.1	112%
Anthracene	LB003126	µg/L	0.1	<0.1	107%
Fluoranthene	LB003126	µg/L	0.1	<0.1	107%
Pyrene	LB003126	µg/L	0.1	<0.1	112%
Benzo(a)anthracene	LB003126	µg/L	0.1	<0.1	NA
Chrysene	LB003126	µg/L	0.1	<0.1	NA
Benzo(b)fluoranthene	LB003126	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB003126	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB003126	µg/L	0.1	<0.1	108%
Indeno(1,2,3-cd)pyrene	LB003126	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB003126	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB003126	µg/L	0.1	<0.1	NA
Total PAH (18)*	LB003126	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB003126	%	-	122%	107%
2-fluorobiphenyl (Surrogate)	LB003126	%	-	96%	117%
d14-p-terphenyl (Surrogate)	LB003126	%	-	95%	98%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arsenic, As	LB003174	µg/L	1	<1	0%	105%
Cadmium, Cd	LB003174	µg/L	0.1	<0.1	13%	99%
Chromium, Cr	LB003174	µg/L	1	<1	11%	104%
Copper, Cu	LB003174	µg/L	1	<1	5%	107%
Lead, Pb	LB003174	µg/L	1	<1	7%	105%
Nickel, Ni	LB003174	µg/L	1	<1	0%	104%
Zinc, Zn	LB003174	µg/L	1	<1	1%	105%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C10-C14	LB003126	µg/L	100	<100	96%
TRH C15-C28	LB003126	µg/L	200	<200	93%
TRH C29-C36	LB003126	µg/L	200	<200	95%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB003180	µg/L	40	<40	126%
Benzene	LB003180	µg/L	0.5	<0.5	98%
Toluene	LB003180	µg/L	0.5	<0.5	99%
Ethylbenzene	LB003180	µg/L	0.5	<0.5	99%
m/p-xylene	LB003180	µg/L	1	<1	97%
o-xylene	LB003180	µg/L	0.5	<0.5	98%
Total BTEX*	LB003180	µg/L	3	<3	NA

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
Total Xylenes*	LB003180	µg/L	1.5	<1.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB003180	%	-	81%	71%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS

Contact	Nalin De Silva
Client	Coffey Geotechnics Pty Ltd
Address	8/12 Mars Road LANE COVE WEST LANE COVE WEST NSW 2266
Telephone	02 9911 1099
Facsimile	02 9911 1002
Email	Nalin_DeSilva@coffey.com
Project	**GEOTLCOV24303AA-Syd Ent Centre**
Order Number	**89580**
Samples	5

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	SE100882 R0
Report Number	0000004121
Date Reported	14 Jul 2011
Date Received	12 Jul 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong Liang
Inorganics Metals Team Leader

Edward Ibrahim
Business Manager

Huong Crawford
Laboratory Manager

Ly Kim Ha
Organics Supervisor

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE100882.001 Water 12 Jul 2011 BH12	SE100882.002 Water 12 Jul 2011 BH13	SE100882.003 Water 12 Jul 2011 DUP1	SE100882.004 Water 12 Jul 2011 TS	SE100882.005 Water 12 Jul 2011 TB
Volatile Petroleum Hydrocarbons in Water Method: AN433/AN434							
TRH C6-C9	µg/L	40	<40	<40	<40	-	<40
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	[95%]	<0.5
Toluene	µg/L	0.5	**13**	<0.5	<0.5	[98%]	<0.5
Ethylbenzene	µg/L	0.5	**0.5**	<0.5	<0.5	[100%]	<0.5
m/p-xylene	µg/L	1	**3**	<1	<1	[96%]	<1
o-xylene	µg/L	0.5	**1.4**	<0.5	<0.5	[96%]	<0.5
Total BTEX*	µg/L	3	**18**	<3	<3	[97%]	<3
Total Xylenes*	µg/L	1.5	**4.0**	<1.5	<1.5	[96%]	<1.5
Surrogates							
Trifluorotoluene (Surrogate)	%	-	**89**	**86**	**83**	**90**	**79**
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403							
TRH C10-C14	µg/L	100	<100	<100	<100	-	-
TRH C15-C28	µg/L	200	<200	<200	<200	-	-
TRH C29-C36	µg/L	200	<200	<200	<200	-	-
Surrogates							
TRH (Surrogate)	%	-	-	-	-		
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420							
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Benzo(b)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Dibenzo(a&h)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Total PAH (18)*	µg/L	1	<1	<1	<1	-	-
Surrogates							
d5-nitrobenzene (Surrogate)	%	-	**121**	**115**	**117**		
2-fluorobiphenyl (Surrogate)	%	-	**96**	**95**	**87**		
d14-p-terphenyl (Surrogate)	%	-	**110**	**108**	**110**		

Parameter	Units	LOR	Sample Number: SE100882.001 Sample Matrix: Water Sample Date: 12 Jul 2011 Sample Name: BH12	SE100882.002 Water 12 Jul 2011 BH13	SE100882.003 Water 12 Jul 2011 DUP1	SE100882.004 Water 12 Jul 2011 TS	SE100882.005 Water 12 Jul 2011 TB
Trace Metals (Dissolved) in Water by ICPMS Method: AN318							
Arsenic, As	µg/L	1	<1	**8**	**9**	-	-
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1	-	-
Chromium, Cr	µg/L	1	<1	<1	<1	-	-
Copper, Cu	µg/L	1	**4**	**3**	**2**	-	-
Lead, Pb	µg/L	1	<1	<1	<1	-	-
Nickel, Ni	µg/L	1	**3**	**3**	**3**	-	-
Zinc, Zn	µg/L	1	**250**	**160**	**190**	-	-
Mercury (dissolved) in Water Method: AN311/AN312							
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB003261	mg/L	0.0001	<0.0001	0%	102%	104%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB003260	µg/L	0.1	<0.1	86%
Acenaphthylene	LB003260	µg/L	0.1	<0.1	72%
Acenaphthene	LB003260	µg/L	0.1	<0.1	83%
Fluorene	LB003260	µg/L	0.1	<0.1	NA
Phenanthrene	LB003260	µg/L	0.1	<0.1	84%
Anthracene	LB003260	µg/L	0.1	<0.1	101%
Fluoranthene	LB003260	µg/L	0.1	<0.1	85%
Pyrene	LB003260	µg/L	0.1	<0.1	96%
Benzo(a)anthracene	LB003260	µg/L	0.1	<0.1	NA
Chrysene	LB003260	µg/L	0.1	<0.1	NA
Benzo(b)fluoranthene	LB003260	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB003260	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB003260	µg/L	0.1	<0.1	95%
Indeno(1,2,3-cd)pyrene	LB003260	µg/L	0.1	<0.1	NA
Dibenzo(a&h)anthracene	LB003260	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB003260	µg/L	0.1	<0.1	NA
Total PAH (18)*	LB003260	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB003260	%	-	124%	106%
2-fluorobiphenyl (Surrogate)	LB003260	%	-	114%	128%
d14-p-terphenyl (Surrogate)	LB003260	%	-	123%	106%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB003264	µg/L	1	<1	1%	93%	106%
Cadmium, Cd	LB003264	µg/L	0.1	<0.1	0%	92%	90%
Chromium, Cr	LB003264	µg/L	1	<1	0%	90%	90%
Copper, Cu	LB003264	µg/L	1	<1	1%	87%	90%
Lead, Pb	LB003264	µg/L	1	<1	0%	102%	87%
Nickel, Ni	LB003264	µg/L	1	<1	1%	91%	84%
Zinc, Zn	LB003264	µg/L	1	<1	3%	92%	20%

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

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C10-C14	LB003260	µg/L	100	<100	11%	115%
TRH C15-C28	LB003260	µg/L	200	<200	6%	118%
TRH C29-C36	LB003260	µg/L	200	<200	5%	119%

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

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TRH C6-C9	LB003281	µg/L	40	<40	114%
Benzene	LB003281	µg/L	0.5	<0.5	110%
Toluene	LB003281	µg/L	0.5	<0.5	115%
Ethylbenzene	LB003281	µg/L	0.5	<0.5	113%
m/p-xylene	LB003281	µg/L	1	<1	112%
o-xylene	LB003281	µg/L	0.5	<0.5	110%
Total BTEX*	LB003281	µg/L	3	<3	NA

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

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

				MB	LCS %Recovery
Total Xylenes*	LB003281	µg/L	1.5	<1.5	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Trifluorotoluene (Surrogate)	LB003281	%	-	83%	89%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with diffential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

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

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

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

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf