

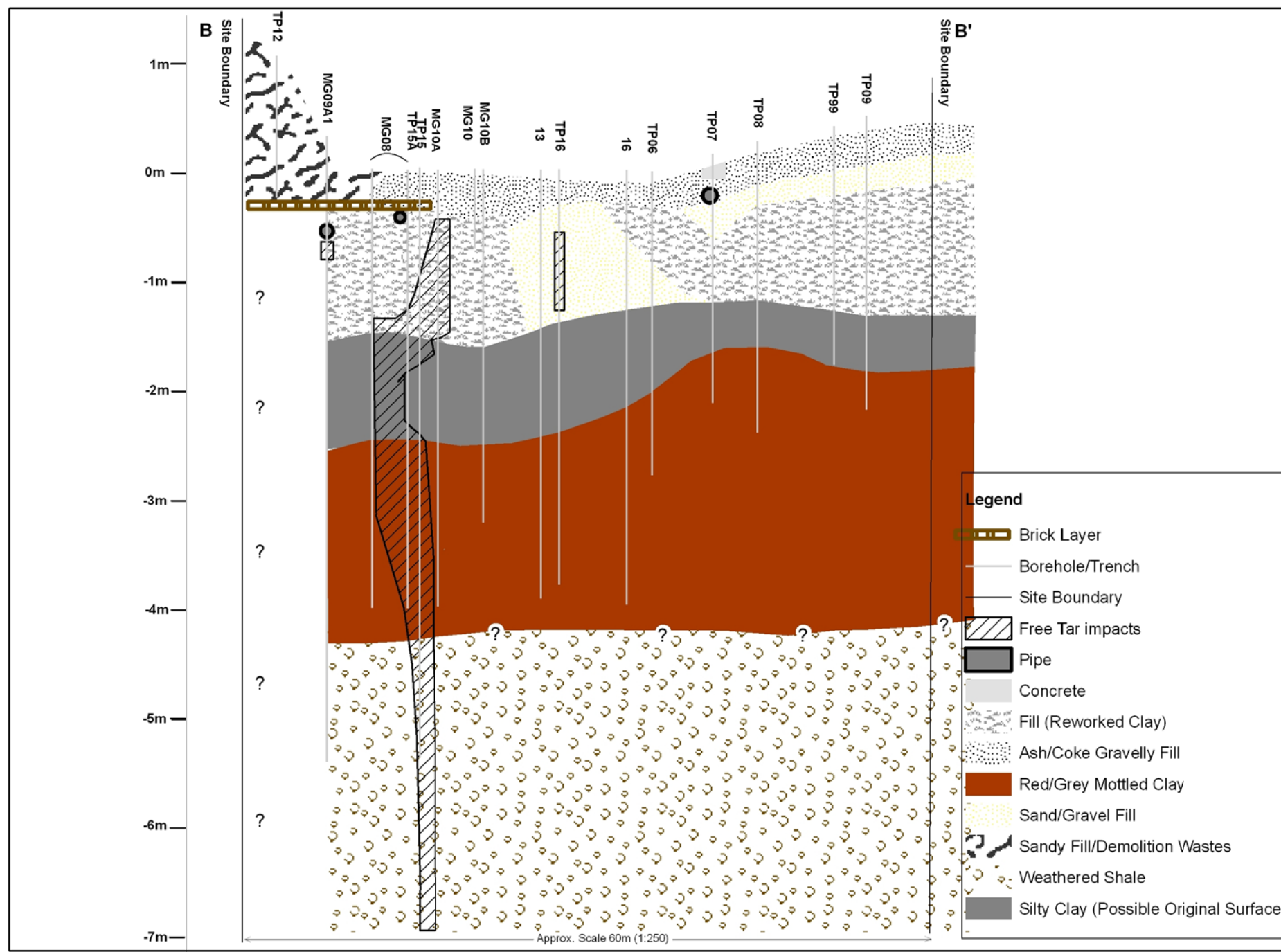


Figure 6 Cross Section Plan No. 2

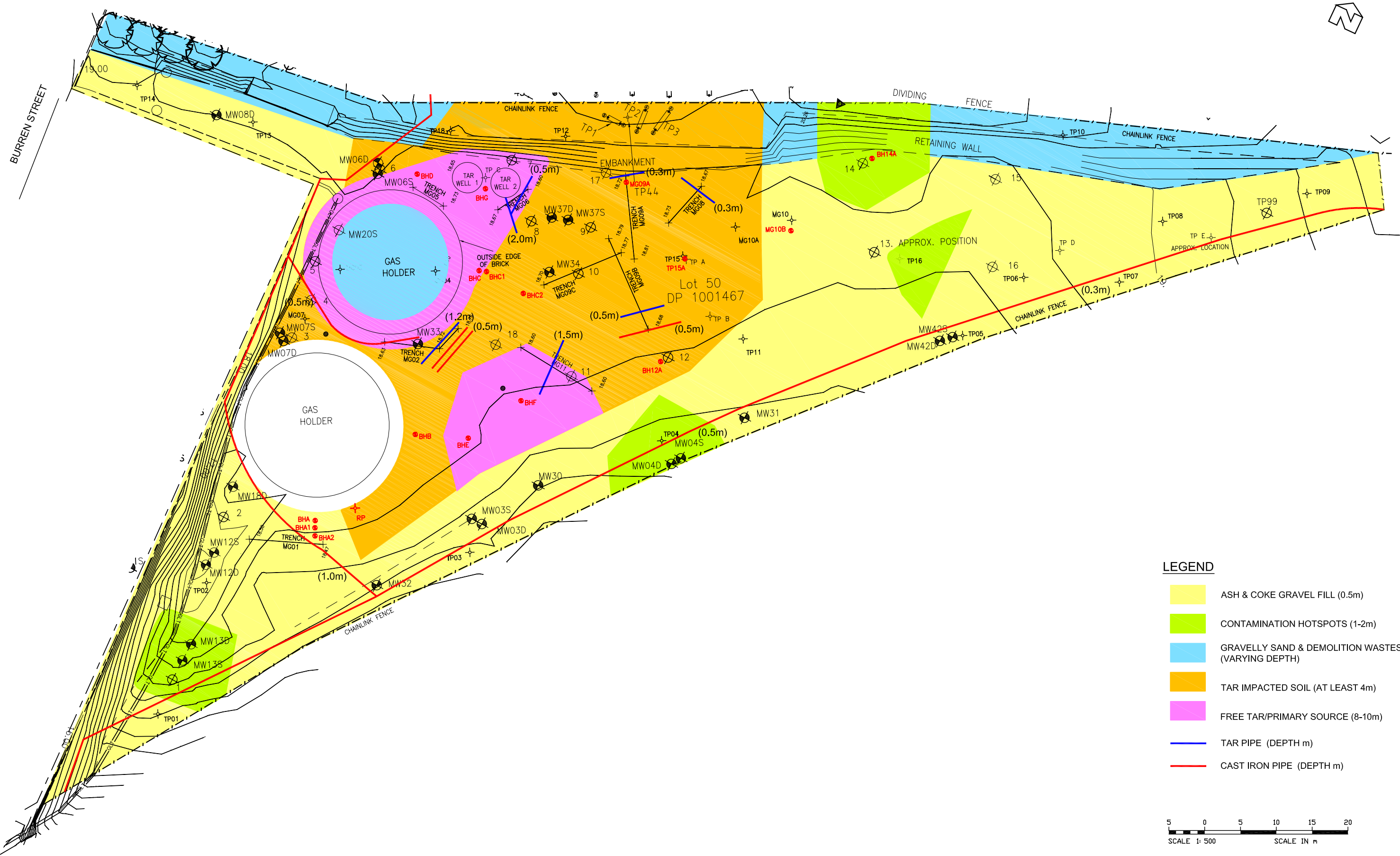


Figure 7
Remediation Areas
& Excavation Depth Estimates

Table 1 - Soil Analytical Results - Gasholder Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	MG02/0.2	MG02/1.8	MG03/0.1	MG04/0.5	MG04/1.5	MG05/0.5	MG07/1.0	MG02/4.7	MG05/1.8	MG05/3.4	MG05/5.0	MG07/4.0	BHA/7.0	BHA/10.2	BHA1/10.2	BHA1/7.0	BHA2/10.2	BHA2/7.0	BHB/6.0	BHB/9.0	BHC/6.0	BHC1/8.0	BHD/7.0	BHD/8.4	
					Fill and Silty Clay Samples							Natural Soil Samples																	
2,4,5-trichlorophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2,4,6-trichlorophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2,4-dichlorophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2,4-dimethylphenol	mg/kg	0.5			1.3	1.8	<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	5	<0.5	<0.5	2.4	
2,6-dichlorophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2-chlorophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
2-methylphenol	mg/kg	0.5			<0.5	0.6	<0.5	-	<0.5	-	<0.5	-	<0.5	<0.5	-	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	<0.5	0.6	3.9	
2-nitrophenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3-&4-methylphenol	mg/kg	1			<1	4.3	<1	-	<1	-	<1	-	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	5.8	
4-chloro-3-methylphenol	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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Pentachlorophenol	mg/kg	2			<2	<2	<2	-	<2	-	<2	-	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Phenol	mg/kg	0.5		42,500	<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	<0.5	<0.5	<0.5	2.3	<0.5	11.4	
Acenaphthene	mg/kg	0.5			<0.5	70.8	<0.5	<0.5	<0.5	-	<0.5	<0.5	9.6	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.5	<0.5	<0.5	<0.5	
Acenaphthylene	mg/kg	0.5			<0.5	125	3.8	0.5	<0.5	-	<0.5	<0.5	10.2	2.2	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	69.7	<0.5	<0.5	<0.5	
Anthracene	mg/kg	0.5			<0.5	208	3.7	1.7	0.5	-	<0.5	<0.5	4.4	0.8	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32.1	<0.5	<0.5	<0.5	
Benz(a)anthracene	mg/kg	0.5			<0.5	202	10.8	5.1	1.3	-	<0.5	<0.5	2.8	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	21.6	<0.5	<0.5	<0.5	
Benzo(a) pyrene	mg/kg	0.5			<0.5	178	10.4	6	1.3	-	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.6	<0.5	<0.5	<0.5	
Benzo(b)fluoranthene	mg/kg	0.5			<0.5	193	12.4	4.3	1	-	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.8	<0.5	<0.5	<0.5	
Benzo(g,h,i)perylene	mg/kg	0.5			<0.5	122	6.6	4.2	0.7	-	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.5	
Benzo(k)fluoranthene	mg/kg	0.5			<0.5	28.3	2.4	5.2	1	-	<0.5	<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	9.1	<0.5	<0.5	<0.5	
Chrysene	mg/kg	0.5			<0.5	158	9.2	4.8	1.4	-	<0.5	<0.5	2.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.8	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	98.2	1.6	1.4	<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	<0.5	1.9	<0.5	<0.5	<0.5	
Fluoranthene	mg/kg	0.5			<0.5	590	15.3	9.9	2.7	-	<0.5	<0.5	6.3	1.2	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	45.9	<0.5	<0.5	<0.5	
Fluorene	mg/kg	0.5			<0.5	275	1.1	<0.5	<0.5	-	<0.5	<0.5	7.1	1.4	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	54.4	<0.5	<0.5	<0.5	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			<0.5	76.6	4.2	3.4	0.6	-	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.6	<0.5	<0.5	<0.5	
Naphthalene	mg/kg	0.5			142	1130	1.7	<0.5	0.5	-	<0.5	1.2	218	34	50.5	<0.5	3.5	<0.5	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	1420	<0.5	<0.5	<0.5	
Phenanthrene	mg/kg	0.5			<0.5	961	10.4	5.5	1.7	-	<0.5	<0.5	13.8	2.8	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	113	<0.5	<0.5	<0.5	
Pyrene	mg/kg	0.5			<0.5	886	21.2	9.3	2.6	-	<0.5	<0.5	7.5	1.4	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	57.4	<0.5	<0.5	<0.5	
PAHs (Sum of total)	mg/kg			100	149.5	5301.9	115.3	62.8	17.3	-	8	8.7	289	48.3	68.1	8	11	8	8	8	8	8	13.4	8	1906.4	8	8	8	
4,4-DDE	mg/kg	0.05			-	<0.25	<0.05	-	<0.05	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	
a-BHC	mg/kg	0.05			-	<0.25	<0.05	-	<0.05	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	
Aldrin	mg/kg	0.05			-	<0.25	<0.05	-	<0.05	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	
b-BHC	mg/kg	0.05			-	<0.25	<0.05	-	<0.05	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	
cis-Chlordane	mg/kg	0.05			-	<0.25	<0.05	-	<0.05	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	
d-BHC	mg/kg	0.05			-	<0.25	<0.05	-	<0																				

Table 2 - Soil Analytical Results - Retort Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	MG06/1.0	MG08/0.3	MG08/1.5	MG08/2.1	MG09A1/0.7	MG09B/0.3	MG09B/0.6	MG09C/0.3	MG09C/1.9	MG10A/0.7	TP15/0.3	BH12A/4.2	BH12A/6.0	BHC2/6.0	BHC2/8.0	BHG/6.0	BHG/7.2	BHG/8.1	MG06/2.0	MG06/4.7	MG08/4.0	MG09A1/3.6	MG09A1/4.8	MG09B/2.5	MG09C/3.8	MG10A/2.8	MG10A/4.0	TP15/2.8	TP15/4.1	TP15A/6.0	TP15A/7.0	
Fill and Silty Clay Samples																																				
2,4,5-trichlorophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2,4,6-trichlorophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2,4-dichlorophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2,4-dimethylphenol	mg/kg	0.5			-	-	14	-	4	-	<0.5	-	-	17.4	-	16.2	<0.5	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2,6-dichlorophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2-chlorophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2-methylphenol	mg/kg	0.5			-	-	6.8	-	1.8	-	<0.5	-	-	11	-	8.1	<0.5	<0.5	<0.5	3.8	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
2-nitrophenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
3-&4-methylphenol	mg/kg	1			-	-	12.2	-	3.2	-	<1	-	-	31.5	-	12.7	<1	<1	<1	5.4	<1	<1	<1	-	-	<1	<1	-	-	<1	<1	-	-	<1	<1	
4-chloro-3-methylphenol	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	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
Pentachlorophenol	mg/kg	2			-	-	<2	-	<2	-	<2	-	-	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	<2	-	-	<2	<2	-	-	<2	<2	
Phenol	mg/kg	0.5		42,500	-	-	6	-	2	-	<0.5	-	-	16.6	-	6.9	<0.5	<0.5	<0.5	7.4	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	<0.5	<0.5	
Acenaphthene	mg/kg	0.5			5.8	-	1100	14.3	6.8	-	<0.5	<0.5	8.3	26.8	<0.5	8.1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	3.6	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	8	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5			3.1	-	479	8.1	27.5	-	<0.5	0.8	5.9	154	0.5	12.1	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	2.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	19.4	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5			3.8	-	650	11.8	22.5	-	<0.5	1	3.6	214	<0.5	32.2	<0.5	<0.5	<0.5	3.2	0.6	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.3	<0.5	19.7	0.8	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5			2.8	-	534	8.2	12.2	-	<0.5	4.4	2.5	426	1.8	22.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	16	0.7	<0.5	<0.5
Benz(b)fluoranthene	mg/kg	0.5			2	-	444	6.9	8.2	-	<0.5	5	2.1	339	2.2	13.9	<0.5	<0.5	<0.5	1	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	<0.5	10.8	0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			1	-	276	3.2	8.7	-	<0.5	4.1	1.2	253	1.6	13.9	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.4	<0.5	7.1	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5			0.8	-	257	3.5	3.4	-	<0.5	3.9	1.3	182	1.7	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	<0.5	2.9	<0.5	4.5	<0.5	<0.5	<0.5
Benzo(a)fluoranthene	mg/kg	0.5			1.4	-	304	4.4	2.5	-	<0.5	3.9	1.6	280	1.7	9.4	<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	4.5	<0.5	9.3	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5			2.4	-	447	7.2	9.8	-	<0.5	4.3	2.3	351	1.7	16.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	12.7	0.6	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	-	59.6	0.6	0.8	-	<0.5	1.3	<0.5	71.4	0.6	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	<0.5	0.8	<0.5	1.6	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5			7	-	1180	20.2	24.4	-	<0.5	6.8	6.9	694	2.5	49.8	<0.5	<0.5	<0.5	5	1.1	<0.5	3	0.6	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	15.8	<0.5	35.6	1.6	<0.5	<0.5
Fluorene	mg/kg	0.5			6.1	-	849	17.5	26	-	<0.5	<0.5	7.6	160	<0.5	42.3	<0.5	<0.5	<0.5	4.2	0.5	<0.5	2.6	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.7	<0.5	25.1	0.9	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			0.6	-	198	2.2	2.9	-	<0.5	3.2	1	155	1.4	4.9	<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	2.2	<0.5	4.1	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			74.8	-	4820	128	182	-	<0.5	0.6	4.5	179	<0.5	166	<0.5	<0.5	<0.5	38.1	1.5	<0.5	73.7	3	3.4	<0.5	<0.5	0.7	<0.5	73.7	0.7	164	7.8	0.8	<0.5	<0.5
Phenanthrene	mg/kg	0.5			14.2	-	2250	50.3	54.3	-	<0.5	2.9	15.4	478	1.2	78.6	<0.5	<0.5	<0.5	10.7	2.1	<0.5	6.6	1.2	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	31	<0.5	57.3	3.3	<0.5	<0.5
Pyrene	mg/kg	0.5			9.2	-	1390	34.8	24.6	-	<0.5	7.8	9.4	795	2.9	38.8	<0.5	<0.5	<0.5	5.5	1.3	<0.5	4	0.8	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	18.8	<0.5	31	1.9	<0.5	<0.5
PA																																				

Table 3 - Soil Analytical Results - Gas Purifier Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	MG11/0.2	MG11/2.0	BHE/2.2	BHF/1.0	MG11/4.0	BHE/3.5	BHE/8.4	BHF/3.6	BHF/7.0	BHF/8.5
					Fill Samples				Natural Soil Samples					
2,4,5-trichlorophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5			-	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methylphenol	mg/kg	0.5			-	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3-&4-methylphenol	mg/kg	1			-	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-chloro-3-methylphenol	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	mg/kg	2			-	<2	<2	<2	<2	<2	<2	<2	<2	<2
Phenol	mg/kg	0.5		42500	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5			1.4	6.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4
Acenaphthylene	mg/kg	0.5			14.8	25.4	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	4.2
Anthracene	mg/kg	0.5			26	47.8	<0.5	4	<0.5	<0.5	<0.5	<0.5	<0.5	2.4
Benz(a)anthracene	mg/kg	0.5			49.8	47.6	<0.5	7.8	<0.5	<0.5	<0.5	<0.5	<0.5	1.5
Benzo(a) pyrene	mg/kg	0.5		5	42	48.8	<0.5	6.4	<0.5	<0.5	<0.5	<0.5	<0.5	1.1
Benzo(b)fluoranthene	mg/kg	0.5			45.1	40.1	<0.5	7	<0.5	<0.5	<0.5	<0.5	<0.5	1.1
Benzo(g,h,i)perylene	mg/kg	0.5			22.5	21.7	<0.5	4.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Benzo(k)fluoranthene	mg/kg	0.5			16.9	13.8	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Chrysene	mg/kg	0.5			39.4	33.3	<0.5	7.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2
Dibenz(a,h)anthracene	mg/kg	0.5			6.4	4.9	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5			141	94.7	<0.5	12.9	<0.5	<0.5	<0.5	<0.5	<0.5	3.8
Fluorene	mg/kg	0.5			4.9	48.2	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			19.6	15.6	<0.5	3.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			9.8	2.6	24.6	2.5	<0.5	<0.5	1.9	<0.5	0.8	99.8
Phenanthrene	mg/kg	0.5			110	157	<0.5	11.9	<0.5	<0.5	<0.5	<0.5	<0.5	7.6
Pyrene	mg/kg	0.5			147	121	<0.5	13.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7
PAHs (Sum of total)	mg/kg			100	696.6	728.8	32.1	89.5	8	8	9.4	8	8.3	134.6
4,4-DDE	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
a-BHC	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Aldrin	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
b-BHC	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
cis-Chlordane	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
d-BHC	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
DDD	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
DDT	mg/kg	0.2			-	<0.2	-	-	-	-	-	-	-	-
Dieldrin	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endosulfan I	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endosulfan II	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endrin	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endrin aldehyde	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Endrin ketone	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
g-BHC (Lindane)	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.05		50	-	<0.12	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.2			-	<0.2	-	-	-	-	-	-	-	-
trans-chlordane	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Aldrin + Dieldrin	mg/kg			50	-	0.24	-	-	-	-	-	-	-	-
DDT+DDE+DDD	mg/kg			1000	-	0.44	-	-	-	-	-	-	-	-
chlordane (total)	mg/kg			250	-	0.24	-	-	-	-	-	-	-	-
Azinophos methyl	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Bromophos-ethyl	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Carbophenothion	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Chlorfenvinphos	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Chlorpyrifos	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Demeton-S-methyl	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Diazinon	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Dichlorvos	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Dimethoate	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Ethion	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Fenamiphos	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Fenitrothion	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Malathion	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Methyl parathion	mg/kg	0.2			-	<0.2	-	-	-	-	-	-	-	-
Monocrotophos	mg/kg	0.2			-	<0.2	-	-	-	-	-	-	-	-
Parathion	mg/kg	0.2			-	<0.2	-	-	-	-	-	-	-	-
Pirimphos-ethyl	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
Prothiofos	mg/kg	0.05			-	<0.12	-	-	-	-	-	-	-	-
PCBs (Sum of total)	mg/kg	0.1		50	-	<0.25	-	-	-	-	-	-	-	-
Cyanide Total	mg/kg	1		1250	-	-	<1	5.3	-	1.6	<1	<1	<1	<1
Arsenic	mg/kg	5		500	38	<5	-	-	7	-	-	-	-	-
Cadmium	mg/kg	1		100	<1	<1	-	-	<1	-	-	-	-	-
Chromium	mg/kg	2		500	18	10	-	-	26	-	-	-	-	-
Copper	mg/kg	5		5000	94	6	-	-	<5	-	-	-	-	-
Lead	mg/kg	5		1500	174	25	-	-	13	-	-	-	-	-
Nickel	mg/kg	2		3000	11	<2	-	-	<2	-	-	-	-	-
Mercury	mg/kg	0.1		75	0.2	<0.1	-	-	<0.1	-	-	-	-	-
Zinc	mg/kg	5		35000	143	17	-	-	<5	-	-	-	-	-
TPH C 6 - C 9 Fraction	mg/kg	2	65		<2	10	155	<2	<2	<2	2	<2	7	22
TPH C10 - C14 Fraction	mg/kg	50			290	330	170	90	<50	<50	<50	<50	<50	650
TPH C15-C28 Fraction	mg/kg	100			4720	5760	190	740	<100	<100	<100	<100	<100	510
TPH C29-C36 Fraction	mg/kg	100			1200	1660	<100	320	<100	<100	<100	<100	<100	100
TPH_C10 - C36 (Sum of total)	mg/kg		1000		6210	7750	460	1150	<250	<250	<250	<250	<250	1260
Benzene	mg/kg	0.2	1		<0.2	<0.2	0.4	<0.2	<0.2	<0.2	1.6	<0.2	0.8	0.8
Ethylbenzene	mg/kg	0.2	50		<0.2	<0.2	16.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.9
Toluene	mg/kg	0.2	130		<0.2	<0.2	0.4	<0.2	<0.2	<0.2	0.2	<0.2	0.4	<0.2
m- & p-xylene	mg/kg	0.2			<0.2	<0.2	6.5	<0.2	<0.2	<0.2	0.2	<0.2	0.6	4.6
o-xylene	mg/kg	0.2			<0.2	<0.2	10.5	<0.2	<0.2	<0.2	0.2	<0.2	0.4	5.2
Xylene Total	mg/kg		25		<0.4	<0.4	17.00	<0.4	<0.4	<0.4	<0.4	<0.4	1.00	9.80

Notes:
(-) refers to analyte not tested.
BOLD refers to exceeds guideline criteria

Table 4 - Soil Analytical Results - Northeast Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	MG10/0.2	TP05/0.25	TP05/0.5	TP05/1.5	TP06/0.25	TP06/0.5	TP06/1.0	TP07/0.5	TP07/1.5	TP08/0.25	TP08/0.5	TP08/1.0	TP09/0.5	TP09/1.0	TP16/0.3	TP16/1.0	BH14A/1.4	MG10B/1.8	TP05/2.0	TP06/2.5	TP07/2.0	TP08/2.0	TP09/2.5	TP16/3.5	BH14A/2.4	MG10B/3.0
Fill and Silty Clay Samples																														
2,4,5-trichlorophenol	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	<0.5	<0.5
2,4,6-trichlorophenol	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	<0.5	<0.5
2,4-dichlorophenol	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	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5			<0.5	1.7	<0.5	-	3.1	-	<0.5	-	-	<0.5	<0.5	<0.5	-	<0.5	-	0.6	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5
2,6-dichlorophenol	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	<0.5	<0.5
2-chlorophenol	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	<0.5	<0.5
2-methylphenol	mg/kg	0.5			<0.5	2.4	<0.5	-	3	-	<0.5	-	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5
2-nitrophenol	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	<0.5	<0.5
3-&4-methylphenol	mg/kg	1			<1	4	<1	-	7.8	-	<1	-	-	<1	<1	<1	-	<1	-	<1	<1	<1	-	-	-	-	-	<1	<1	<1
4-chloro-3-methylphenol	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	<0.5	<0.5
Pentachlorophenol	mg/kg	2			<2	<2	<2	-	<2	-	<2	-	-	<2	<2	<2	-	<2	-	<2	<2	<2	-	-	-	-	-	<2	<2	<2
Phenol	mg/kg	0.5		42500	<0.5	<0.5	<0.5	-	6.6	-	<0.5	-	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5			<0.5	72.1	<0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5			1	114	<0.5	<0.5	18.3	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	0.9	<0.5	1.1	11	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5			0.9	206	<0.5	<0.5	30.2	<0.5	<0.5	<0.5	<0.5	2	<0.5	<0.5	2.1	<0.5	1.4	17.9	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5			2.1	188	<0.5	0.7	69.8	<0.5	0.8	<0.5	<0.5	7.5	<0.5	<0.5	6	<0.5	5	23.8	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5		5	1.8	158	<0.5	<0.5	55	<0.5	0.7	<0.5	<0.5	8.2	<0.5	<0.5	5.4	<0.5	6.9	39.4	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	mg/kg	0.5			1.5	87.6	<0.5	<0.5	70.6	<0.5	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	3.7	<0.5	7.7	37.1	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			1.2	103	<0.5	<0.5	29.7	<0.5	<0.5	<0.5	<0.5	5.8	<0.5	<0.5	3.3	<0.5	5.2	19.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5			1.6	27.1	<0.5	<0.5	17.4	<0.5	0.6	<0.5	<0.5	6.7	<0.5	<0.5	4.2	<0.5	2.3	9.3	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5			2.1	154	<0.5	0.6	51.7	<0.5	0.8	<0.5	<0.5	7	<0.5	<0.5	5.2	<0.5	4.4	21.2	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	25.9	<0.5	<0.5	10.6	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	0.9	<0.5	1.4	4.7	<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			3.7	459	<0.5	1.2	106	<0.5	1.4	<0.5	<0.5	10.1	<0.5	<0.5	12.6	<0.5	5.4	50	<0.5	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5			<0.5	196	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	14	<0.5	3	<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			1	69.2	<0.5	<0.5	26.8	<0.5	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	2.8	<0.5	4	13.9	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			0.8	965	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.6	<0.5	1	38.7	0.7	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5			2.8	792	<0.5	0.9	70.8	<0.5	<0.5	<0.5	<0.5	4.7	<0.5	<0.5	6.5	<0.5	2.3	42.8	<0.5	7.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5			4.2	684	<0.5	1.1	117	<0.5	1.7	<0.5	<0.5	12.8	<0.5	<0.5	13.1	<0.5	7.1	72.3	<0.5	5.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg			100	26.2	4300.9	8	10	690.2	8	11	8	8	79.4	8	8	68.5	8	56.2	425.1	8.2	38.4	8	8	8	8	8	8	8	8
4,4-DDE	mg/kg	0.05			<0.05	-	<0.05	-	-	-	<0.05	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
a-BHC	mg/kg	0.05			<0.05	-	<0.05	-	-	-	<0.05	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
Aldrin	mg/kg	0.05			<0.05	-	<0.05	-	-	-	<0.05	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
b-BHC	mg/kg	0.05			<0.05	-	<0.05	-	-	-	<0.05	-	-	-	<0.05	-	-	-	-	<0.05	-	-	-							

Table 5 - Soil Analytical Results - South Central Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	TP03/0.5	TP03/1.0	TP04/0.5	TP04/0.7	TP11/0.2	TP11/1.0	TP03/2.0	TP03/4.0	TP04/3.0	TP11/3.5
					Fill and Silty Clay Samples					Natural Soil Samples				
2,4,5-trichlorophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2,4-dichlorophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2,4-dimethylphenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2,6-dichlorophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2-chlorophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2-methylphenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
2-nitrophenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
3-&4-methylphenol	mg/kg	1			-	<1	-	-	-	<1	-	-	-	-
4-chloro-3-methylphenol	mg/kg	0.5			-	<0.5	-	-	-	<0.5	-	-	-	-
Pentachlorophenol	mg/kg	2			-	<2	-	-	-	<2	-	-	-	-
Phenol	mg/kg	0.5		42500	-	<0.5	-	-	-	<0.5	-	-	-	-
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
Acenaphthylene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	6.2	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	mg/kg	0.5		5	<0.5	<0.5	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	5.1	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5			0.6	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	2.9	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			<0.5	<0.5	<0.5	1.3	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	4.9	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5			0.6	<0.5	<0.5	<0.5	10.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg			100	8.2	8	8	8.8	63.8	8	8	8	8	8
4,4-DDE	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
a-BHC	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Aldrin	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
b-BHC	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
cis-Chlordane	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
d-BHC	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
DDD	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
DDT	mg/kg	0.2			-	<0.2	-	<0.2	-	<0.2	-	-	-	-
Dieldrin	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endosulfan I	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endosulfan II	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endosulfan sulphate	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endrin	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endrin aldehyde	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Endrin ketone	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
g-BHC (Lindane)	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Heptachlor	mg/kg	0.05		50	-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Heptachlor epoxide	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Hexachlorobenzene	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Methoxychlor	mg/kg	0.2			-	<0.2	-	<0.2	-	<0.2	-	-	-	-
trans-chlordane	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Aldrin + Dieldrin	mg/kg			50	-	0.1	-	0.1	-	0.1	-	-	-	-
DDT+DDE+DDD	mg/kg			1000	-	0.3	-	0.3	-	0.3	-	-	-	-
chlordane (total)	mg/kg			250	-	0.1	-	0.1	-	0.1	-	-	-	-
Azinophos methyl	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Bromophos-ethyl	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Carbophenothion	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Chlorfenvinphos	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Chlorpyrifos	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Chlorpyrifos-methyl	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Demeton-S-methyl	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Diazinon	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Dichlorvos	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Dimethoate	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Ethion	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Fenamiphos	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Fenitrothion	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Malathion	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Methyl parathion	mg/kg	0.2			-	<0.2	-	<0.2	-	<0.2	-	-	-	-
Monocrotophos	mg/kg	0.2			-	<0.2	-	<0.2	-	<0.2	-	-	-	-
Parathion	mg/kg	0.2			-	<0.2	-	<0.2	-	<0.2	-	-	-	-
Pirimphos-ethyl	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
Prothiofos	mg/kg	0.05			-	<0.05	-	<0.05	-	<0.05	-	-	-	-
PCBs (Sum of total)	mg/kg	0.1		50	-	<0.1	-	-	-	<0.1	-	-	-	-
Cyanide Total	mg/kg	1		1250	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	5		500	-	<5	-	15	26	<5	-	-	-	-
Cadmium	mg/kg	1		100	-	<1	-	<1	<1	<1	-	-	-	-
Chromium	mg/kg	2		500	-	6	-	11	19	12	-	-	-	-
Copper	mg/kg	5		5000	-	17	-	16	176	<5	-	-	-	-
Lead	mg/kg	5		1500	-	30	-	47	344	<5	-	-	-	-
Nickel	mg/kg	2		3000	-	25	-	<2	23	<2	-	-	-	-
Mercury	mg/kg	0.1		75	-	0.1	-	0.1	0.3	<0.1	-	-	-	-
Zinc	mg/kg	5		35000	-	161	-	17	205	32	-	-	-	-
TPH C 6 - C 9 Fraction	mg/kg	2	65		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TPH C10 - C14 Fraction	mg/kg	50			<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28 Fraction	mg/kg	100			<100	<100	<100	<100	850	<100	<100	<100	<100	<100
TPH C29-C36 Fraction	mg/kg	100			<100	<100	<100	<100	510	<100	<100	<100	<100	<100
TPH_C10 - C36 (Sum of total)	mg/kg		1000		<250	<250	<250	<250	1410	<250	<250	<250	<250	<250
Benzene	mg/kg	0.2	1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	0.2	50		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.2	130		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
m- & p-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylene Total	mg/kg		25		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

Notes:
(-) refers to analyte not tested.
BOLD refers to exceeds guideline criteria

Table 6 - Soil Analytical Results - Southwest Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	MG01/1.8	MG01/2.8	RP/2.0	TP01/0.25	TP01/1.0	TP01/1.5	TP01/3.0	TP02/1.0	TP02/3.0	MG01/5	TP02/4.5	TP02/4.5	BHA/5.0		
					Fill Samples										Natural Soil Samples				
2,4,5-trichlorophenol	mg/kg	0.5		42500	<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	<0.5		
2,4,6-trichlorophenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2,4-dichlorophenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2,4-dimethylphenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2,6-dichlorophenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2-chlorophenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2-methylphenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
2-nitrophenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
3-&4-methylphenol	mg/kg	1			<1	-	<1	-	-	<1	-	-	-	-	-	-	-	-	<1
4-chloro-3-methylphenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
Pentachlorophenol	mg/kg	2			<2	-	<2	-	-	<2	-	-	-	-	-	-	-	-	<2
Phenol	mg/kg	0.5			<0.5	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
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	<0.5	<0.5
Acenaphthylene	mg/kg	0.5	1.4	<0.5	7.5	1.3	<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	3.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Benz(a)anthracene	mg/kg	0.5	0.7	<0.5	10	3.2	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Benzo(a) pyrene	mg/kg	0.5	0.6	<0.5	12.8	3.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Benzo(b)fluoranthene	mg/kg	0.5	1	<0.5	13.1	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Benzo(g,h,i)perylene	mg/kg	0.5	0.8	<0.5	9.8	3.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Benzo(k)fluoranthene	mg/kg	0.5	1.2	<0.5	5.6	3.2	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Chrysene	mg/kg	0.5	0.9	<0.5	9.4	3.3	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	2	0.8	<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	1.3	<0.5	10.8	4.6	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Fluorene	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	0.7	<0.5	6.5	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Naphthalene	mg/kg	0.5	0.6	<0.5	3.3	0.6	<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	1.3	<0.5	5.3	1.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Pyrene	mg/kg	0.5	1.1	<0.5	17.5	7	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PAHs (Sum of total)	mg/kg		100		13.6	8	118.2	39.2	8	10.4	8	8	8	8	8	8	8		
4,4-DDE	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
a-BHC	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Aldrin	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
b-BHC	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
cis-Chlordane	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
d-BHC	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
DDD	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
DDT	mg/kg	0.2	<0.2	-	<0.2	-	-	<0.2	-	-	-	-	-	-	-	<0.2	-		
Dieldrin	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endosulfan I	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endosulfan II	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endosulfan sulphate	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endrin	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endrin aldehyde	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Endrin ketone	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
g-BHC (Lindane)	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Heptachlor	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Heptachlor epoxide	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Hexachlorobenzene	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Methoxychlor	mg/kg	0.2	<0.2	-	<0.2	-	-	<0.2	-	-	-	-	-	-	-	<0.2	-		
trans-chlordane	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Aldrin + Dieldrin	mg/kg		50		0.1	-	0.1	-	-	0.1	-	-	-	-	-	0.1	-		
DDT+DDE+DDD	mg/kg		1000		0.3	-	0.3	-	-	0.3	-	-	-	-	-	0.3	-		
chlordane (total)	mg/kg		250		0.1	-	0.1	-	-	0.1	-	-	-	-	-	0.1	-		
Azinophos methyl	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Bromophos-ethyl	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Carbophenothion	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Chlorfenvinphos	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Chlorpyrifos	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Chlorpyrifos-methyl	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Demeton-S-methyl	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Diazinon	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Dichlorvos	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Dimethoate	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Ethion	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Fenamiphos	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Fenthion	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Malathion	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Methyl parathion	mg/kg	0.2	<0.2	-	<0.2	-	-	<0.2	-	-	-	-	-	-	-	<0.2	-		
Monocrotophos	mg/kg	0.2	<0.2	-	<0.2	-	-	<0.2	-	-	-	-	-	-	-	<0.2	-		
Parathion	mg/kg	0.2	<0.2	-	<0.2	-	-	<0.2	-	-	-	-	-	-	-	<0.2	-		
Pirimphos-ethyl	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
Prothiofos	mg/kg	0.05	<0.05	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-		
PCBs (Sum of total)	mg/kg	0.1	<0.1	-	<0.1	-	-	<0.1	-	-	-	-	-	-	-	-	-		
Cyanide Total	mg/kg	1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	mg/kg	5	<5	-	6	-	-	<5	-	-	-	-	-	-	-	7	-		
Cadmium	mg/kg	1	<1	-	<1	-	-	<1	-	-	-	-	-	-	-	<1	-		
Chromium	mg/kg	2	4	-	20	-	-	<2	-	-	-	-	-	-	-	22	-		
Copper	mg/kg	5	140	-	28	-	-	14	-	-	-	-	-	-	-	<5	-		
Lead	mg/kg	5	65	-	93	-	-	10	-	-	-	-	-	-	-	16	-		
Nickel	mg/kg	2	2	-	4	-	-	<2	-	-	-	-	-	-	-	<2	-		
Mercury	mg/kg	0.1	<0.1	-	0.1	-	-	<0.1	-	-	-	-	-	-	-	<0.1	-		
Zinc	mg/kg	5	12	-	34	-	-	<5	-	-	-	-	-	-	-	<5	-		
TPH C 6 - C 9 Fraction	mg/kg	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
TPH C10 - C14 Fraction	mg/kg	50	<50	<50	120	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		
TPH C15-C28 Fraction	mg/kg	100	<100	<100	930	250	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100		
TPH C29-C36 Fraction	mg/kg	100	<100	<100	680	220	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100		
TPH_C10 - C36 (Sum of total)	mg/kg		<250	<250	1730	520	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250		
Benzene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Ethylbenzene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				

Notes:
 (-) refers to analyte not tested.
BOLD refers to exceeds guideline criteria

Table 7 - Soil Analytical Results - Retaining Wall Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	TP10/1.0	TP10/2.0	TP12/0.25	TP12/0.5	TP18/1.2	TP10/4.0	TP18/3.2	TP18/4.4
					Fill Samples					Natural Soil Samples		
2,4,5-trichlorophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2,4,6-trichlorophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2,4-dichlorophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2,4-dimethylphenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2,6-dichlorophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2-chlorophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2-methylphenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
2-nitrophenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
3-&4-methylphenol	mg/kg	1			<1	-	<1	<1	<1	-	-	-
4-chloro-3-methylphenol	mg/kg	0.5			<0.5	-	<0.5	<0.5	<0.5	-	-	-
Pentachlorophenol	mg/kg	2			<2	-	<2	<2	<2	-	-	-
Phenol	mg/kg	0.5		42500	<0.5	-	<0.5	<0.5	<0.5	-	-	-
Acenaphthene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5			<0.5	<0.5	4	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5			<0.5	0.7	3	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5			<0.5	1.4	9.3	1	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5		5	<0.5	1	9.6	1	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	mg/kg	0.5			<0.5	0.8	8.2	0.8	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			<0.5	0.6	11.1	1	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5			<0.5	1.2	8.5	0.9	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5			<0.5	1.2	9.4	1	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5			<0.5	2.8	15	2	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			<0.5	0.5	7.4	0.7	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5			<0.5	1.8	7.1	1	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5			<0.5	2.5	19.2	2	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg			100	8	17	117.4	14.4	8	8	8	8
4,4-DDE	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
a-BHC	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Aldrin	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
b-BHC	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
cis-Chlordane	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
d-BHC	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
DDD	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
DDT	mg/kg	0.2			<0.2	-	-	<0.2	<0.2	-	-	-
Dieldrin	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endosulfan I	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endosulfan II	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endosulfan sulphate	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endrin	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endrin aldehyde	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Endrin ketone	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
g-BHC (Lindane)	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Heptachlor	mg/kg	0.05		50	<0.05	-	-	<0.05	<0.05	-	-	-
Heptachlor epoxide	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Hexachlorobenzene	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Methoxychlor	mg/kg	0.2			<0.2	-	-	<0.2	<0.2	-	-	-
trans-chlordane	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Aldrin + Dieldrin	mg/kg			50	0.1	-	-	0.1	0.1	-	-	-
DDT+DDE+DDD	mg/kg			1000	0.3	-	-	0.3	0.3	-	-	-
chlordane (total)	mg/kg			250	0.1	-	-	0.1	0.1	-	-	-
Azinophos methyl	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Bromophos-ethyl	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Carbophenothion	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Chlorfenvinphos	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Chlorpyrifos	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Chlorpyrifos-methyl	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Demeton-S-methyl	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Diazinon	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Dichlorvos	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Dimethoate	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Ethion	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Fenamiphos	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Fenthion	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Malathion	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Methyl parathion	mg/kg	0.2			<0.2	-	-	<0.2	<0.2	-	-	-
Monocrotophos	mg/kg	0.2			<0.2	-	-	<0.2	<0.2	-	-	-
Parathion	mg/kg	0.2			<0.2	-	-	<0.2	<0.2	-	-	-
Pirimphos-ethyl	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
Prothiofos	mg/kg	0.05			<0.05	-	-	<0.05	<0.05	-	-	-
PCBs (Sum of total)	mg/kg	0.1		50	<0.1	-	-	<0.1	<0.1	-	-	-
Cyanide Total	mg/kg	1		1250	-	-	-	-	-	-	-	-
Arsenic	mg/kg	5		500	<5	7	31	71	7	7	6	6
Cadmium	mg/kg	1		100	<1	1	2	1	<1	<1	<1	<1
Chromium	mg/kg	2		500	2	9	26	18	22	17	25	23
Copper	mg/kg	5		5000	38	44	248	334	16	6	14	<5
Lead	mg/kg	5		1500	25	62	1060	219	73	16	19	13
Nickel	mg/kg	2		3000	2	5	21	11	<2	<2	6	2
Mercury	mg/kg	0.1		75	<0.1	<0.1	0.7	0.2	<0.1	<0.1	<0.1	<0.1
Zinc	mg/kg	5		35000	160	634	1110	362	52	<5	17	<5
TPH C 6 - C 9 Fraction	mg/kg	2	65		<2	<2	<2	<2	<2	<2	<2	<2
TPH C10 - C14 Fraction	mg/kg	50			<50	<50	180	<50	<50	<50	<50	<50
TPH C15-C28 Fraction	mg/kg	100			<100	<100	1420	<100	<100	<100	<100	<100
TPH C29-C36 Fraction	mg/kg	100			<100	<100	720	<100	<100	<100	<100	<100
TPH_C10 - C36 (Sum of total)	mg/kg		1000		<250	<250	2320	<250	<250	<250	<250	<250
Benzene	mg/kg	0.2	1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	0.2	50		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.2	130		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
m- & p-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylene Total	mg/kg		25		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

Notes:
(-) refers to analyte not tested.
BOLD refers to exceeds guideline criteria

Table 8 - Soil Analytical Results - Western Lot Area

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	TP13/0.25	TP14/0.25	TP14/0.5	TP13/1.0	TP13/1.5	TP14/1.0	TP14/1.5
					Fill Samples			Natural Soil Samples			
2,4,5-trichlorophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
2,4,6-trichlorophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
2,4-dichlorophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
2,4-dimethylphenol	mg/kg	0.5			1.4	<0.5	-	-	-	<0.5	-
2,6-dichlorophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
2-chlorophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
2-methylphenol	mg/kg	0.5			1	<0.5	-	-	-	<0.5	-
2-nitrophenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
3-&4-methylphenol	mg/kg	1			2.8	<1	-	-	-	<1	-
4-chloro-3-methylphenol	mg/kg	0.5			<0.5	<0.5	-	-	-	<0.5	-
Pentachlorophenol	mg/kg	2			<2	<2	-	-	-	<2	-
Phenol	mg/kg	0.5		42500	1.5	<0.5	-	-	-	<0.5	-
Acenaphthene	mg/kg	0.5			1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5			8.6	2.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5			14	3.2	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5			47.2	8	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5		5	45.5	7.4	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	mg/kg	0.5			38.8	5.2	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			47.4	7.2	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5			41.1	6.6	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5			43.5	7.6	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5			14.4	2.1	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5			66	12.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5			2.2	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			36.4	5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5			3.2	1	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5			32.5	9.2	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5			69.6	16.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total)	mg/kg			100	512	95.2	8	8	8	8	8
4,4-DDE	mg/kg	0.05			-	-	-	-	-	-	-
a-BHC	mg/kg	0.05			-	-	-	-	-	-	-
Aldrin	mg/kg	0.05			-	-	-	-	-	-	-
b-BHC	mg/kg	0.05			-	-	-	-	-	-	-
cis-Chlordane	mg/kg	0.05			-	-	-	-	-	-	-
d-BHC	mg/kg	0.05			-	-	-	-	-	-	-
DDD	mg/kg	0.05			-	-	-	-	-	-	-
DDT	mg/kg	0.2			-	-	-	-	-	-	-
Dieldrin	mg/kg	0.05			-	-	-	-	-	-	-
Endosulfan I	mg/kg	0.05			-	-	-	-	-	-	-
Endosulfan II	mg/kg	0.05			-	-	-	-	-	-	-
Endosulfan sulphate	mg/kg	0.05			-	-	-	-	-	-	-
Endrin	mg/kg	0.05			-	-	-	-	-	-	-
Endrin aldehyde	mg/kg	0.05			-	-	-	-	-	-	-
Endrin ketone	mg/kg	0.05			-	-	-	-	-	-	-
g-BHC (Lindane)	mg/kg	0.05			-	-	-	-	-	-	-
Heptachlor	mg/kg	0.05		50	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.05			-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.05			-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.2			-	-	-	-	-	-	-
trans-chlordane	mg/kg	0.05			-	-	-	-	-	-	-
Aldrin + Dieldrin	mg/kg			50	-	-	-	-	-	-	-
DDT+DDE+DDD	mg/kg			1000	-	-	-	-	-	-	-
chlordane (total)	mg/kg			250	-	-	-	-	-	-	-
Azinophos methyl	mg/kg	0.05			-	-	-	-	-	-	-
Bromophos-ethyl	mg/kg	0.05			-	-	-	-	-	-	-
Carbophenothion	mg/kg	0.05			-	-	-	-	-	-	-
Chlorfenvinphos	mg/kg	0.05			-	-	-	-	-	-	-
Chlorpyrifos	mg/kg	0.05			-	-	-	-	-	-	-
Chlorpyrifos-methyl	mg/kg	0.05			-	-	-	-	-	-	-
Demeton-S-methyl	mg/kg	0.05			-	-	-	-	-	-	-
Diazinon	mg/kg	0.05			-	-	-	-	-	-	-
Dichlorvos	mg/kg	0.05			-	-	-	-	-	-	-
Dimethoate	mg/kg	0.05			-	-	-	-	-	-	-
Ethion	mg/kg	0.05			-	-	-	-	-	-	-
Fenamiphos	mg/kg	0.05			-	-	-	-	-	-	-
Fenthion	mg/kg	0.05			-	-	-	-	-	-	-
Malathion	mg/kg	0.05			-	-	-	-	-	-	-
Methyl parathion	mg/kg	0.2			-	-	-	-	-	-	-
Monocrotophos	mg/kg	0.2			-	-	-	-	-	-	-
Parathion	mg/kg	0.2			-	-	-	-	-	-	-
Pirimphos-ethyl	mg/kg	0.05			-	-	-	-	-	-	-
Prothiofos	mg/kg	0.05			-	-	-	-	-	-	-
PCBs (Sum of total)	mg/kg	0.1		50	-	-	-	-	-	-	-
Cyanide Total	mg/kg	1		1250	-	-	-	-	-	-	-
Arsenic	mg/kg	5		500	14	6	-	-	-	8	7
Cadmium	mg/kg	1		100	1	<1	-	-	-	<1	<1
Chromium	mg/kg	2		500	14	45	-	-	-	28	26
Copper	mg/kg	5		5000	172	94	-	-	-	<5	<5
Lead	mg/kg	5		1500	579	209	-	-	-	15	22
Nickel	mg/kg	2		3000	19	58	-	-	-	<2	<2
Mercury	mg/kg	0.1		75	0.3	0.1	-	-	-	<0.1	<0.1
Zinc	mg/kg	5		35000	612	274	-	-	-	10	20
TPH C 6 - C 9 Fraction	mg/kg	2	65		<2	<2	<2	<2	<2	<2	<2
TPH C10 - C14 Fraction	mg/kg	50			190	50	<50	<50	<50	<50	<50
TPH C15-C28 Fraction	mg/kg	100			6010	2770	<100	<100	<100	<100	<100
TPH C29-C36 Fraction	mg/kg	100			2670	680	<100	<100	<100	<100	<100
TPH_C10 - C36 (Sum of tot	mg/kg		1000		8870	3500	<250	<250	<250	<250	<250
Benzene	mg/kg	0.2	1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	0.2	50		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.2	130		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
m- & p-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Xylene Total	mg/kg		25		<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

Notes:
(-) refers to analyte not tested.
BOLD refers to exceeds guideline criteria

Table 9 - Soil Analytical Results - Coal Tar

Analyte	Unit	LOR	NSW EPA, 1994	NEPM HIL F	USEPA 1998	MG09B/PIPE 17/08/2006	RP/PIPE 17/08/2006	TAR WELL #2 16/08/2006	Tar 20/02/2007
Benzo(a) pyrene	mg/kg	0.5		5		595	491	164	-
PAHs (Sum of total)	mg/kg			100		26,805.30	20,889.80	25,557.60	-
TPH C 6 - C 9 Fraction	mg/kg	2	65			3,770.00	70	6,690.00	-
TPH C10 - C36 (Sum of t	mg/kg		1000			1,180,000.00	24,660.00	98,700.00	-
Benzene	mg/kg	0.2	1			576	2	814	-
Ethylbenzene	mg/kg	0.2	50			156	1.1	254	-
Toluene	mg/kg	0.2	130			1,210.00	3.6	1,680.00	-
Xylene Total	mg/kg		25			1,516.00	47.40	3,170.00	-
PCDD/F	pg/g	0.0409			5,000 - 20,000	-	-	-	1.1

Notes:

(-) refers to analyte not tested.

BOLD refers to exceeds guideline criteria

Table 10 - Soil Analytical Results - Asbestos

	MG01/0.1	MG01/0.2	MG03/0.1	MG04/1.5	MG04/1.5	MG09B	MG10/0.2	MG10A/0.7	TP01/0.25	TP02/0.25	TP03/0.25	TP04/0.25	TP05/0.25	TP06/0.25	TP07/0.25	TP08/0.25	TP09/0.25	TP10/0.25	TP11/0.2	TP12/0.25	TP13/0.25	TP14/0.25	TP18
ASBESTOS	ND	Chrysotile & amosite	ND	Chrysotile & amosite	Chrysotile & Crocidolite	Chrysotile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Chrysotile	ND	ND	ND
Matrix	soil mix	fibro fragment	soil mix	fibro fragment	soil mix	fragment	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix	soil mix

Notes:
(ND) refers to not detected.

Table 11 - Summary of All Data for Fill & Silty Clay Material - Macdonaldtown Gasworks Site

Sample Location	Easting (AMG)	Northing (AMG)	Elevation (mAHD)	Soil Profile	Sample Depth (m)	Contaminants of Concern - Concentrations in mg/kg																				
						BaP	Total PAH	TPH (C6-C9)	TPH (C10-C14)	TPH (C15-C28)	TPH (C29-C36)	Total C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylenes	Metals	Cyanide (Total)	VOCs	Total Phenols	OCPs	OPPs	Asbestos	PCBs		
Commercial / Industrial Landuse Guidelines (NEHF F / NSW EPA 1994 Service Station Guidelines)						5	100	65	-	-	-	1000	1	130	50	25	Various	2500	See BTEX	42500 (phenol)	50 (heptachlor) 50 (dieldrin+ieldrin) 50 (chlordane) 1000 (DDT+DDE+DDD)	-	-	-		
Gasholder																										
BH03	317103.713	1247693.358	18.690	Gravelly fill	0-0.1	27	294.8	nd	120	3300	1600	5020	nd	nd	nd	nd	< guidelines	-	-	18.4	-	-	-	-		
BH04	317103.564	1247699.228	18.780	Red clay & decomposed shale	0.1-1.5	nd	nd	nd	nd	300	260	560	nd	nd	nd	nd	< guidelines	nd	-	-	-	-	-	-		
				Gravelly fill	0-0.1	nd	nd	-	-	-	-	-	-	-	-	-	< guidelines	-	-	-	-	-	-	-		
BH05 BH06	317101.342 317103.196	1247704.245 1247719.155	18.7 18.960	Clay, gravel and shale fi	0.1-0.55	-	-	-	-	-	-	-	-	-	-	-	< guidelines	-	-	-	-	-	-	-		
				Coal slag fill & coarse sanc	0.55-0.8	140	1697	nd	1000	9700	1400	12100	nd	nd	nd	nd	< guidelines	-	-	419	-	-	-	-		
				Clay, coal pieces, gravel, rock	0.8-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Grey silty clay	0.8-0.9	nd	nd	-	-	-	-	-	nd	nd	nd	nd	< guidelines	-	-	-	-	-	-	-	-	
				Refusal on Gas Holder at 0.0m	1.5-2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW06S	317103.196	1247719.155	18.960	Bitumen	0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Coke fill, minor sanc	0.1-0.3	190	2374	11	2600	15000	2400	20000	nd	nd	nd	3	< guidelines	0.7	-	65	-	-	-	-		
				Red clay fill & weathered shal	0.3-1.0	30	137.3	nd	70	580	260	910	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-		
				Grey silty clay	1.0-2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Grey silty clay	2.0-2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW06D	317102.514	1247720.496	18.970	Bitumen	0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Coke and sand fill	0.1-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Coke and sand fill	0.3-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Red clay and weathered shale	0.4-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Silty clay fill	1-1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW07S	317101.940	1247693.130	19.575	Silty clay fill	1.0-2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Coke and sand fill	2-2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Clay and weathered shale	0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Clay and weathered shale	0.3-1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Silty clay	1-1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW07D	317102.910	1247692.360	19.590	Silty clay	2-2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MW20S	317102.250	1247709.050	19.660	Bitumen	0-0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MW33	332293.5328	6247699.5870	18.797	Sandy clay fill	0.05-0.3	6.1	68.9	nd	nd	398	398	398	nd	nd	nd	nd	<guidelines	-	nd	nd	-	-	-	-		
MG02	317122.410	1247701.920	18.680	Silty sandy clay fill, HC odour	0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Sandy silty clay fill, HC odour	0.1-0.6	-	-	-	-	2124 (C16-C35 Aromatics) & 217 (Aliphatics)			nd	nd	nd	nd	-	-	-	-	-	-	-			
				Silty clay, HC odou	0.6-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Black ash, coke gravels, clinker fill, high odou	0-0.3	nd	142.0	72	290	nd	nd	290	4.2	5.8	22.1	29.6	-	-	-	1.3	-	-	-	-	-	
				Red/grey mottled moderately plastic clay	0.3-1.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MG03 MG04	317104.9400 317116.7000	1247704.9300 1247711.1700	18.750 18.720	Dark brown low plasticity silty clay fill, black ooze, tar high odo	1.5-1.9	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Dark brown low plasticity silty clay fill, black ooze, tar high odo	1.9	178	5301.9	189	10300	21400	4440	36140	3	4.4	30.2	165.8	<guidelines	23.3	-	6.7	nd	nd	nd	nd	nd	
				Gravelly sandy silt fill with ballast, bricks, scrap metal, sandstone bloc	0-1.0	10.4	114.8	nd	100	1800	850	2750	nd	nd	nd	nd	<guidelines	-	-	nd	nd	nd	-	-	-	
				Gravelly sand fill with black and brown brick fragments	0.5	6	61.3	nd	nd	1340	470	1810	nd	nd	nd	nd	Pb=2140	-	-	-	-	-	-	-	-	
				Fibro cement sheet fragment	0-1.5	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MG05	317110.820	1247701.920	18.730	Gravelly sand fill with black and brown brick fragments	1.5	1.3	15.30	nd	nd	240	nd	240	nd	nd	nd	nd	<guidelines	-	-	-	nd	nd	detected (fragment)	nd		
				Bitumen, ash gravels and crushed roc	0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Brown low plasticity silty clay fill with fine grave	0.3-1.3	0.5	-	nd	280	10800	2260	13340	nd	nd	nd	nd	<guidelines	-	-	-	-	-	-	-	-	
				Brown low plasticity silty clay fill with fine gravels	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Gravelly ash fill and ballast	0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MG07	317103.960	1247696.520	18.740	Red/grey mottled moderate plasticity clay fill with minor bricks	0.3-1.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	-	-	-	-		
				Gravelly clay, wet, black staining, high odour	2.4-4.4	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	15	15	14	-	-	-	15	16	16	16	16	15	3	1	10	3	3	3	3		
				-	-	8	7	2	-	-	-	8	2	0	0	2	1	0	0	0	0	0	0	0		
				-	-	5	4	1	-	-	-	6	2	0	0	1	0	0	0	0	0	0	0	0	0	
Total Samples Analysed																										
Detects above criteria																										
Hotspots																										
Retort																										
BH07	317118.681	1247729.832	18.710	Coke fill, minor sanc	0-0.8	200	2078	nd	1300	11000	2100	14400	nd	nd	nd	nd	< guidelines	-	-	50	nd	-	-	-		
BH08	317125.080	1247723.696	18.580	Clay, shale and rock fill	0.8-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Clay, oil, tar, HC odou	1.0-2.0	26	1144.8	-	-	-	-	-	nd	nd	8	32	< guidelines	98	some detections	nd	-	-	-	-	nd	
BH09 BH10	317132.858 317134.360	1247726.929 1247720.447	18.740 18.730	Gravelly fill	0-0.5	4.6	53.3	-	-	-	-	-	-	-	-	-	< guidelines	-	-	-	-	-	-	-		
				Coke and sand fill	0.5-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Silty clay and coal slag	1.0-1.5	7	99.3	nd	120	740	120	980	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
				Grey silty clay	1.6-1.7	5.4	82	-	-	-	-	-	nd	nd	nd	nd	< guidelines	-	-	-	-	-	-	-	nd	
				Grey Silty clay	1.5-2.5	2.3-2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 BH12	317130.945 317151.071	1247734.645 1247716.220	18.58 18.670	Sand and brick fill	0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Refusal on brick at 0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ballast & slag fill	0-0.1	11	112	-	-	-	-	-	-	-	-	-	-	< guidelines	-	-	nd	-	-	-	-	
				Ballast & slag fill	0.3	2.8	28	nd	30	300	140	470	nd	nd	nd	nd	< guidelines	-	-	-	-	-	-	-	-	
				Refusal at 0.3 on concrete slab	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 BH12	317130.945 317151.071	1247734.645 1247716.220	18.58 18.670	Refusal on foundations at 0.0m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Gravelly fill	0-0.1	5.8	49.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Coarse sand	0.1-2.0	nd	nd	-	-	-	-	-	-	-	-	-	-	-	-	<guidelines	3.4	-	-	-	-	-
				Coarse sand	1.3-1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<guidelines	3.4	nd	-	-	-	-
				Clay, shale and coke fill	2.0-2.1	nd	0.6	-	-	-	-	-	nd	nd	nd	nd	-	-	-	3	-	-	-	-	-	-
TP12																										

Table 11 - Summary of All Data for Fill & Silty Clay Material - Macdonaldtown Gasworks Site

Sample Location		Easting (AMG)	Northing (AMG)	Elevation (mAHD)	Soil Profile	Sample Depth (m)		Contaminants of Concern - Concentrations in mg/kg																				
								BaP	Total PAH	TPH (C6-C9)	TPH (C10-C14)	TPH (C15-C28)	TPH (C29-C36)	Total C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylenes	Metals	Cyanide (Total)	VOCs	Total Phenols	OCPs	OPPs	Asbestos	PCBs		
Commercial / Industrial Landuse Guidelines (NEHF F / NSW EPA 1994 Service Station Guidelines)								5	100	65	-	-	-	1000	1	130	50	25	Various	2500	See BTEX	42500 (phenol)	50 (heptaclor) 50 (aldrin+dieldrn) 50 (chlorane) 1000 (DDE+DDE+DDD)	-	-	-	-	50
Total Samples Analysed Detects above criteria Hotspots	MG11	317138.230	1247707.260	18.600	Ash, coke and slag fill Clay and rock fill Moist clay with strong odou Fill with oil, tar, strong odour Silty clay (odour) 1.9-2.5	0.2-0.4 0.4-1.0 1.0-1.5 1.5-1.9 1.7-1.8	0.2-0.3 0.4-0.5 1.0-1.1 1.7-1.8	220 3953 28 2160.8	nd	3400	26000	9000	38400	nd	nd	nd	nd	<guidelines	8.8	-	97	-	-	-	-	-		
	BHE	317131.9540	1247692.9320	18.5000	Dark grey very gravelly sand fill with ash, coke and balla Orange and red firm clay fill Yellow/orange medium sand fill with black staining and t	0-0.2 0.5-1.7 1.7-3.2	0.2 1.5 2.0	42 696.60 48.8 728.80	nd	290	4720	1200	6210	nd	nd	nd	nd	<guidelines	nd	-	nd	-	-	-	-	nd		
	BHF	317135.8890	1247701.0570	18.5600	Reworked clay, lowmetd plast, firm Reworked clay, lowmetd plast, firm Reworked clay, lowmetd plast, firm, ash gravels	1.6 2.2 1	1.6 2.2 1.0	nd 6.4 6	24.6 (naphthalene) 89.5 5	155	170	190	nd	0.4	0.4	16.1	17	n	5.3	nd	-	-	1	1	0			
	-	-	-	-	-	-	-	-	5	4	1	-	4	1	0	1	0	5	7	0	5	1	1	0	1			
	-	-	-	-	-	-	-	-	4	4	0	-	3	1	0	0	1	0	0	0	0	0	0	0	0	0		
Northeast																												
BH13			Not surveyed		Gravelly fill Coke and sand fill Red clay and weathered shale Silty clay Gravelly fill Sand and coke fill Red clay & weathered shale Silty clay, strong hydrocarbon odou	0-0.1 0.1-0.7 0.7-1.0 1.0-1.5 0-0.1 0.1-0.7 0.7-1.5 1.1-1.5	0-0.1 0.2-0.3 0.9-1.0 1.2-1.3 0-0.1 0.2-0.3 0.9-1.0 1.4	4.6 39.2 39 413.2 nd 0.6 5 32.8 nd nd nd 3.8 0.7 (naphthalene)	-	-	-	-	-	-	-	-	-	<guidelines	-	-	-	-	-	-	-			
BH14	317161.824	1247753.075	19.030																									
BH14A	317162.5340	1247754.2870	18.890																									
BH15	317179.131	1247760.045	18.810																									
BH16	317184.659	1247749.137	18.500																									
TPD	317191.694	1247755.693	18.8																									
TPE																												
TP99	317214.570	1247774.179	19.420																									
MW42S	332357.7440	6247737.6530	18.484																									
MW42D	332356.4770	6247736.3090	18.529																									
MG10	317156.8600	1247741.3200	18.800																									
MG10B	317157.4720	1247740.0010	18.820																									
TP05	317185.5300	1247736.7300	18.440																									
TP06	317189.0900	1247749.9500	18.530																									
TP07	317201.1000	1247755.8200	18.890																									
TP08	317202.3200	1247766.1500	19.150																									
TP09	317218.1000	1247779.2700	19.470																									
TP16	317172.6700	1247743.8900	18.600																									
Total Samples Analysed Detects above criteria Hotspots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
South Central																												
MW03S	317137.911	1247683.304	18.380																									
MW03D	317139.485	1247683.339	18.330																									
MW04S	317159.418	1247704.764	18.400																									
MW04D	317158.641	1247703.451	18.370																									
MW30	332317.9292	6247690.8620	18.363																									
MW31	332338.1760	6247713.4180	18.446																									
MW32	332305.3280	6247667.5440	18.331																									
TP03	317139.830	1247679.080	18.020																									
TP04	317155.800	1247705.630	18.500																									
TP11	317158.910	1247723.560	18.590																									
Total Samples Analysed Detects above criteria Hotspots	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Southwest																												
BH01	317111.994	1247643.511	18.370																									
BH02	317107.419	1247666.818	18.420																									

Table 11 - Summary of All Data for Fill & Silty Clay Material - Macdonaldtown Gasworks Site

Sample Location	Easting (AMG)	Northing (AMG)	Elevation (mAHD)	Soil Profile	Sample Depth (m)	Contaminants of Concern - Concentrations in mg/kg																					
						BaP	Total PAH	TPH (C6-C9)	TPH (C10-C14)	TPH (C15-C28)	TPH (C29-C36)	Total C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylenes	Metals	Cyanide (Total)	VOCs	Total Phenols	OCPs	OPPs	Asbestos	PCBs			
Commercial / Industrial Landuse Guidelines (NEHF F / NSW EPA 1994 Service Station Guidelines)						5	100	65	-	-	-	-	1000	1	130	50	25	Various	2500	See BTEX	42500 (phenol)	50 (heptachlor) 50 (aldrin+dieldrin) 50 (chlordane) 1000 (DDT+DDE+DDD)	-	-	-	50	
VP01_01 VP01_02 VP01_03 VP01_04 VP01_05 VP01_06 VP02_01 VP02_02 VP02_03 VP02_04 VP02_05 VP02_06	Not surveyed - VP01 & VP02 located 15m directly south of remaining gasholder			Red clay & decomposed shale	0-2.0	35	203.4	-	-	-	-	-	-	-	-	-	< guidelines	-	-	nd	nd	-	-	-	-		
				Red clay & weathered shale	1.5-2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Silty clay, rock fragments, HC odour	2.1-3.0	nd	0.9	12	50	nd	nd	50	nd	nd	nd	5	< guidelines	nd	-	-	-	-	-	-	-	-	
				Plastic clay and gravel (odorous)	3.0-3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Silty clay (odorous)	3.3-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Surface	5.9	93.5	nd	nd	420	550	995	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
				-	-	Surface	10	137.7	nd	nd	790	870	1685	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
				-	-	Surface	7.1	104.3	nd	nd	870	1100	1995	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
				-	-	Surface	15	219.4	nd	nd	830	1200	2055	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
				-	-	Surface	3.2	45.4	nd	nd	710	990	1725	nd	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-	-	
MW12S MW12D MW13S MW13D MW18D MW18D MG01				-	-	Surface	10	134.1	nd	nd	1600	1500	3125	nd	nd	nd	Pb=2140	-	-	nd	-	-	-	-			
				-	-	Surface	2.5	44.8	nd	nd	520	700	1245	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-			
				-	-	Surface	12	258.3	nd	nd	1500	1100	2625	nd	nd	nd	Pb=1510	-	-	nd	-	-	-	-			
				-	-	Surface	3.3	68.9	nd	nd	420	490	935	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-			
				-	-	Surface	12	236.6	nd	nd	1200	1200	2325	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-			
				-	-	Surface	3.5	62.9	nd	nd	550	570	1145	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-			
				-	-	Surface	1.8	22.9	nd	nd	440	450	875	nd	nd	nd	< guidelines	-	-	nd	-	-	-	-			
				-	-	0.8-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	1.4-1.5	7.7	68.2	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	nd	nd	-	-	-	-	-		
				-	-	1.4-10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW13S MW13D MW18D MW18D MG01				-	-	0.9-1.0	34.9	346	nd	-	6444	6444	nd	nd	<guidelines	-	nd	5.9	-	-	-	-	-				
				-	-	0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
				-	-	1.0-4.4	1	8.3	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	nd	nd	-	-	-	-			
				-	-	0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	1.0-10.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	nd	nd	-	-	-	-			
				-	-	0-0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	0.1-0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	0.2-0.7	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	1.3-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MG01				-	-	1.5-2.0	1.8	0.6	12.0	nd	nd	nd	nd	nd	nd	nd	<guidelines	nd	-	nd	nd	nd	nd	detected (fragment)			
				-	-	2.0-2.6	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
				-	-	2.6-3.2	2.8	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-			
				-	-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	0-0.3	3.5	38.20	nd	nd	250	220	470	nd	nd	nd	-	-	-	-	-	-	-	-			
				-	-	0.3-1.4	1.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-			
				-	-	1.4-2.2	1.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	nd	nd	-	nd			
				-	-	Yellow, medium grained sandy gravelly clay	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Yellow, medium grained sandy gravelly clay	2.2-3.5	3.0	0.7	5.90	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-		
				-	-	Brown very gravelly (sandstone shale) clayey sand	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP01				-	-	Grey/black gravelly sand fill, ash, clinker and coke	0.1-1.2	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
				-	-	Grey/black gravelly sand fill, ash, clinker and coke	1.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-			
				-	-	Grey/black gravelly sand fill, ash, clinker and coke	1.2-1.7	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	Brown/orange gravelly clayey sand fill with patches of red sandy clay (1.4m)	1.7-2.8	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	Brown/dark gravelly sand with sandstone and bricks, clinker and cobbles	2.8-3.9	3.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	-		
				-	-	Brown/orange very sandy gravelly (coke) clay fill with clay pipe	0-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Gravelly clay, low plast, minor ash and ballast gravels	0.7-1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Reworked clay, low/mid plast, fin	2.0	12.8	118.20	nd	120	930	680	1730	nd	nd	nd	nd	<guidelines	-	-	nd	nd	nd	-	nd	
				-	-	Sandy clay fill - ceramic pipin	1.2-2.0	2.0	491	20890	70	4590	15200	4870	24660	2	3.6	1.1	47	<guidelines	-	-	7.6	nd	nd	-	nd
				-	-	Coal tar materia	PIPE	30	30	27	-	-	-	-	28	28	28	24	24	3	4	21	5	3	4	3	
Total Samples Analysed Detects above criteria Hotspots				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Retaining Wall						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
TP44 TP1 TP2 TP3 TP10 TP12 TP18				-	-	150	2472.4	-	-	-	-	-	15	16	nd	10	<guidelines	-	-	74	-	-	-	-			
				-	-	Clay and sandstone fragments	0.3-2.1	nd	nd	-	-	-	-	-	nd	nd	nd	nd	<guidelines	-	-	nd	-	-	-	-	
				-	-	Sandy gravel and topso	0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Gravel, ash, coke, coal fill, odou	0.1-0.4	67	898.1	nd	190	6200	3000	9390	nd	nd	nd	nd	<guidelines	-	-	-	-	-	-	-	
				-	-	Gravelly sand with fine ash, bricks	0.4-0.7	1.3	15.6	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	-	-	-	-	-		
				-	-	Plastic clay	0.7-1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	Sandy, ash, gravel, coal, coke, bricks	0-0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Powdery grey ash fill	0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Plastic clay	0.8-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Grey/black gravelly sand fill, ash, coke, coal, bricks, rail rivets and rail sleeper	0.5-1.7	1.3-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Samples Analysed Detects above criteria Hotspots				-	-	0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
				-	-	Ash, coal, coke (black and white	0.2-0.4	1.4	14.3	150	130	760	210	1100	3.2	10	2.8	179	<guidelines	-	-	-	-	-	-		
				-	-	Powdery grey ash fill	0.4-0.7	0.4	4.3	nd	nd	nd	nd	nd	1.6	nd	<guidelines	-	-	-	-	-	-	-			
				-	-	Plastic clay	0.7-1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Grey/black gravelly sand, ash, coke, coal, bricks, rail rivets and rail sleeper	0.8-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Grey/black gravelly sand, ash, coke, coal, bricks, rail rivets and rail sleeper	0-0.8	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	Yellow medium sand with concrete boulder and some mild grey staining	0.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	nd	nd	-			

Table 12 - Summary of All Data for Natural Soil - Macdonaldtown Gasworks Site

Sample Location	Easting (AMG)	Northing (AMG)	Elevation (mAHD)	Soil Profile	Sample Depth (m)	Contaminants of Concern - Concentrations in mg/kg																			
						BaP	Total PAH	TPH (C6-C9)	TPH (C10-C14)	TPH (C15-C28)	TPH (C29-C36)	Total C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylenes	Metals	Cyanide (Total)	VOCs	Total Phenols	OCPs	OPPs	PCBs		
Commercial / Industrial Landuse Guidelines (NEHF F / NSW EPA 1994 Service Station Guidelines)						5	100	65	-	-	-	-	1000	1	130	50	25	Various	2500	See BTEX	42500 (phenol)	50 (heptachlor) 50 (aldrin+dieldrin) 50 (chlordane) 1000 (DDT+DDE+DDD)	-	-	
Gasholders																									
BH03	317103.713	1247693.358	18.690	Grey plastic clay Red/orange clay, weathered shale	1.5-2.8 2.8-4.0	2.4-2.5 2.9-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH04	317103.564	1247699.228	18.780	Red plastic clay, weathered shale	2.5-3.0	2.5-2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH06	317103.196	1247719.155	18.960	Red clay & weathered shale	2.2-3.1	3.0-3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW06S	317103.196	1247719.155	18.960	Red clay and weathered shale	2.2-3.5	3-3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW06D	317102.514	1247720.496	18.970	Red clay and weathered shale	2.2-7.0	3.0-3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW07D	317102.910	1247692.360	19.590	Shale	7.0-15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Plastic clay becoming weathered shale	4.0-11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MG02	317122.410	1247701.920	18.680	Shale	11.0-12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/ yellow mottled, med plastic clay becoming shale, HC odour	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MG05	317110.820	1247701.920	18.730	Red/ yellow mottled, med plastic clay becoming shale, HC odour	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/ yellow mottled, med plastic clay becoming shale, HC odour	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Red/ yellow mottled, med plastic clay becoming shale, HC odour	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Red/ yellow mottled, med plastic clay becoming shale, HC odour	2.0-4.7	4.7	nd	1.20	4	nd	nd	nd	nd	0.3	nd	nd	nd	-	-	-	-	-	-	-	-
				Red/grey mottled, stiff, very high HC odour	1.8	2.2	288.50	118	2100	940	nd	3040	nd	5.6	15	80.4	<guidelines	-	-	nd	nd	nd	nd	nd	nd
MG07	317103.960	1247696.520	18.740	Red/grey mottled, stiff, very high HC odour	3.4	nd	43.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/grey mottled, stiff, very high HC odour	1.3-5.0	5.0	nd	65.10	92	580	740	nd	1320	nd	7.3	3.9	35	<guidelines	-	-	-	-	-	-	
				Red/yellow mottled, low plasticity sandy clay	3.0-4.0	4.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-	
				Red/grey mottled weathered shale clay, dark stains, strong HC odour	4.0-6.0	5.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	nd	nd	nd	
				Weathered shale with red ironstone gravelly fracturing, dark stains, odours	6.0-10.2	10.2	nd	3.5 (naphthalene)	nd	nd	nd	nd	nd	0.3	nd	nd	nd	-	-	-	nd	-	-	-	-
BHA1	317119.2270	1247671.6640	18.4100	Weathered shale with red ironstone gravelly fracturing, dark stains, odours	7.0	nd	nd	nd	nd	nd	nd	nd	nd	1.6	nd	nd	nd	-	-	-	nd	-	-		
				Weathered shale with red ironstone gravelly fracturing, dark stains, odours	6.0-10.2	10.2	nd	nd	nd	nd	nd	nd	nd	1.4	nd	nd	nd	-	-	-	nd	-	-	-	
BHA2	317119.7780	1247670.6760	18.4800	Weathered shale with red ironstone gravelly fracturing, dark stains, odours	7.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-		
				Weathered shale with red ironstone gravelly fracturing, dark stains, odours	6.0-10.2	10.2	nd	nd	nd	nd	nd	nd	nd	0.9	nd	nd	nd	-	-	-	nd	-	-	-	
BHB	317125.2230	1247689.8230	18.4900	Red/grey mottled weathered shale clay, high odour	3.0-6.5	6.0	nd	5.9 (naphthalene)	4	nd	nd	2	nd	0.5	0.9	-	-	-	-	-	-	-			
BHC	317122.0140	1247714.1410	18.7800	Weathered shale with red ironstone gravelly fracturing, odours	6.5-9.6	9.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-			
BHC1	317122.9830	1247714.5220	18.7500	Brick annulus, free tar, wet, very high odours	5.5- 6.5	6.0	17.6	1906.4	559	5440	2610	710	8760	6.4	38.7	40.8	246.7	-	-	-	2.3	-	-		
BHD	317107.9530	1247721.7750	18.8600	Weathered shale with red ironstone gravelly fracturing, dark stains, odours	7.2-8.0	8.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	nd	-	-		
				Red/grey mottled weathered shale clay, wet, HC odour, tar visible	6.5-8	7.0	nd	nd	8	nd	nd	nd	nd	5.4	0.2	0.7	1.6	-	-	-	nd	-	-	-	
Total Samples Analysed						nd	nd	9	nd	nd	nd	nd	7.5	0.9	nd	0.8	-	-	-	11.4	-	-	-		
Detects above criteria						18	18	17	-	-	-	17	17	17	17	2	0	0	15	2	2	2	2		
Hotspots						1	2	3	-	-	-	3	6	0	0	3	0	-	-	0	0	0	0		
						1	2	1	-	-	-	2	3	0	0	2	0	-	-	0	0	0	0		
Retort																									
BH07	317118.681	1247729.832	18.710	Red clay, weather shale (odourous)	2.0-3.0	2.9-3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BH08	317125.080	1247723.696	18.580	Grey compacted clay / shale	2.5-4.0	3.5-3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Plastic silty clay fill	2.5-9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH12	317151.071	1247716.220	18.670	Clay and shale	9.0-12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red clay and weathered shale	3.1-4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Plastic clay	4-4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Compacted clay (slight odour)	4.1-4.5	4.4-4.5	8.4	224.4	9	300	420	nd	720	1	3	nd	4	-	-	34.2	-	-	-	-	
				Clay red/grey mottled, med plast, stiff - visible tar in pores	3.5-5	4.2	13.9	515.6	228	1190	3350	810	5350	20	53	8.3	94.9	-	4.6	6.9	-	-	-	-	-
MG06	317121.6000	1247725.1500	18.950	Weathered shale with red ironstone gravelly fracturing	5-9.2	6.0	nd	nd	nd	nd	nd	nd	0.2	nd	nd	nd	-	-	-	nd	-	-	-		
				Red/green mottled low plasticity clay, high HC odour, tar in pores	2.0	0.8	101.50	41	620	980	nd	1600	nd	2.5	6.9	22.7	<guidelines	-	-	nd	nd	nd	nd	nd	
				Red/green mottled low plasticity clay, high HC odour	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Red/green mottled low plasticity clay, high HC odour	2.0-4.7	4.7	nd	6.10	6	nd	nd	nd	nd	nd	0.5	1.4	<guidelines	2.1	-	-	-	-	-	-	
				Red/grey mottled highly plastic clay, visible tar in pores	2.5-3.5	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MG09B	317141.1300	1247722.6100	18.735	Grey/ white moderate plasticity weathered shale clay, faint HC odour	3.5-4.0	4.0	nd	8.40	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-			
MG09C	317134.4800	1247721.2700	18.735	Red/grey mottled moderate plasticity clay	1.7-2.5	2.5	nd	0.70	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-			
MG10A	317150.4400	1247736.7200	18.850	Brown/green low plasticity silty clay becoming shale, high HC odour	1.9-3.8	3.8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	-	-	-			
TP15	317145.9700	1247729.6300	18.780	Red/grey highly plastic clay becoming weathered shale clay	2.8	6.3	206.90	56	760	3060	250	4070	1.1	1.9	6.3	18.9	<guidelines	-	-	nd	nd	nd	nd		
				Red/grey highly plastic clay becoming weathered shale clay	2.3-4.0	4.0	nd	0.70	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	-	-	-		
				Red/grey mottled moderate plasticity clay, tar in pores	2.8	10.8	426.20	107	450	1400	240	2090	1.8	10.9	17.5	56.2	<guidelines	1.9	-	nd	nd	nd	-	-	
				Red/grey mottled moderate plasticity clay to weathered shale, tar in pores	2.5-4.1	4.1	0.5	18.10	65	nd	nd	nd	nd	2.7	10.6	4.9	24.8	<guidelines	-	-	nd	-	-	-	
				Weathered shale with red ironstone gravelly fracturing, free tar, odours	6.0	nd	0.8 (naphthalene)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	nd	-	-	-	-	
BHC2	317128.9550	1247714.3230	18.6600	Weathered shale with red ironstone gravelly fracturing	5.0-8.0	7.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	nd	-	-	-			
				Weathered shale with red ironstone gravelly fracturing, dark stains, odours	6.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	nd	-	-	-	-		
				Weathered shale with red ironstone gravelly fracturing, odours	4.8-8.0	8.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	nd	-	-	-	-		
BHG	317117.2880	1247724.5790	18.6100	Red/grey mottled moderate plasticity clay, tar in pores, high odours	4.8-6.0	6.0	1	76.6	24	160	220	nd	380	2.4	4.1	1.3	8.7	-	-	7.4	-	-			
				Weathered shale with red ironstone gravelly fracturing, dark stains, odours	7.2	nd	12.3	8	nd	nd	nd	nd	nd	nd	0.4	1.6	-	-	nd	0.4	-	-	-	-	
MG09A1	317134.074	124																							

Table 12 - Summary of All Data for Natural Soil - Macdonaldtown Gasworks Site

Sample Location	Easting (AMG)	Northing (AMG)	Elevation (mAHD)	Soil Profile	Sample Depth (m)	Contaminants of Concern - Concentrations in mg/kg																	
						BaP	Total PAH	TPH (C6-C9)	TPH (C10-C14)	TPH (C15-C28)	TPH (C29-C36)	Total C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylenes	Metals	Cyanide (Total)	VOCs	Total Phenols	OCPs	OPPs	PCBs
Commercial / Industrial Landuse Guidelines (NEHF F / NSW EPA 1994 Service Station Guidelines)						5	100	65	-	-	-	1000	1	130	50	25	Various	2500	See BTEX	42500 (phenol)	50 (heptaclor) 50 (aldrin+dieldrin) 50 (chlordane) 1000 (DDT+DDE+DDD)	-	-
Hotspots						0	0	0	-	-	-	0	0	0	0	0	0	-	0	-	-	-	
South Central						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW03D	317139.485	1247683.339	18.330	Siltstone	5.0-11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Shale	11.0-13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW04D	317158.641	1247703.451	18.370	Siltstone	5.5-10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Shale	10-11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP03	317139.830	1247679.080	18.020	Red/brown with grey mottles plastic silty clay, strong HC odour	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/brown with grey mottles plastic silty clay, strong HC odour	2.8-4.0	4.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
TP04	317155.800	1247705.630	18.500	Wet soft clayey silt, slight odour	2.0-2.9	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/ brown grey mottled slightly sandy clay, slight odour	2.9-3.1	3.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
TP11	317158.910	1247723.560	18.590	Grey with red mottles very firm clay	3.2-4.0	3.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
Total Samples Analysed						3	3	3	-	-	-	3	3	3	3	3	0	0	0	0	0	0	
Detects above criteria						0	0	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	
Hotspots						0	0	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	
Southwest						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH01	317111.994	1247643.511	18.370	Red clay / weathered shale	4.0-4.5	4.0-4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red clay, compacted, hard	4.0-4.5	4.4-4.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
MW12S	317107.419	1247666.818	18.420	Red plastic clay	3.0-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW12D	317108.480	1247659.800	20.020	Shale	10.0-12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW13S	317112.030	1247646.520	19.500	Red plastic clay	4.2-5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW13D	317112.010	1247649.090	19.470	Plastic clay	4.4-10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Shale	10.0-12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MW18D	317106.550	1247671.160	19.490	Shale bedrock	10.0-12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MG01	317116.340	1247667.860	18.530	Red/ grey mottled highly plastic clay becoming shale, feint HC odour	3.6	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Red/ grey mottled highly plastic clay becoming shale, feint HC odour	5.0	5.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
TP02	317109.670	1247657.650	19.070	Light grey with red mottles non-plastic firm clay	3.9-4.3	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				Brown fine to coarse gravelly sand, coke and ash present, strong HC odour	4.5	4.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
				Brown fine to coarse gravelly sand, coke and ash present, strong HC odour	4.3-4.5	4.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	nd		
Total Samples Analysed						4	4	4	-	-	-	4	4	4	4	4	1	0	0	1	1	0	
Detects above criteria						0	0	0	-	-	-	0	0	0	0	0	0	-	-	0	0	-	
Hotspots						0	0	0	-	-	-	0	0	0	0	0	0	-	-	0	0	-	
Retaining Wall						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TP10	317184.32	1247770	20.1	Grey with red mottles very firm clay, shale gravels at top	3.2-4.1	4.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	-	-		
TP18	317109.12	1247729.32	19.84	Red/ grey mottled clay	3.2	3.2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	nd	-	-	-		
				Red/ grey mottled clay	2.6-4.4	4.4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	-	-		
Total Samples Analysed						3	3	3	-	-	-	3	3	3	3	3	3	0	0	0	0	0	
Detects above criteria						0	0	0	-	-	-	0	0	0	0	0	0	0	-	-	-	-	
Hotspots						0	0	0	-	-	-	0	0	0	0	0	0	0	-	-	-	-	
Western Lot						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW08D	317079.530	1247715.480	19.540	Red clay becoming weathered shale	0.4-11.0	1.4-1.5	0.7	5.6	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	-		
				Shale	11.0-12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TP13	317079.530	1247715.480	19.540	Orange/yellow red mottled non plastic silty clay	0.6-1.3	1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
				Red/grey mottled very firm clay	1.3-1.7	1.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-		
TP14	317067.72	1247713.76	18.7	Orange/brown with red mottles slightly silty clay	0.8-1.2	1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	-	-	nd	-		
				Red/grey mottled slightly silty clay	1.2-1.8	1.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<guidelines	nd	-	-	-		
Total Samples Analysed						5	5	5	-	-	-	5	5	5	5	5	3	1	0	2	0	0	
Detects above criteria						0	0	0	-	-	-	0	0	0	0	0	0	0	-	0	-	-	
Hotspots						0	0	0	-	-	-	0	0	0	0	0	0	0	-	0	-	-	

BOLD Concentration exceeds Commercial/Industrial Guidelines
BOLD Hotspots of contamination (conc exceeds criteria by 250%)

Table 13 - TCLP Analytical Results

Analyte	MG01/1.8		Waste Classification	MG02/1.8		Waste Classification	TP10/2.0		Waste Classification	TP06/0.25		Waste Classification	MG04/0.5		Waste Classification	MG06/2.0		Waste Classification	MG10A/0.7		Waste Classification	MG11/2.0		Waste Classification
	TCLP	SCC		TCLP	SCC		TCLP	SCC		TCLP	SCC		TCLP	SCC		TCLP	SCC		TCLP	SCC		TCLP	SCC	
Arsenic	-	<5	inert	<0.1	8	inert	-	7	inert	-	-	-	-	13	solid	-	6	inert	<0.1	17	inert	-	<5	inert
Cadmium	-	<1	inert	<0.05	<1	inert	-	1	inert	-	-	-	-	<1	inert	-	<1	inert	<0.05	3	inert	-	<1	inert
Lead	-	65	solid	<0.1	93	inert	<0.1	62	inert	-	-	-	5	2,140	industrial	<0.1	21	inert	<0.1	426	inert	<0.1	25	inert
Nickel	-	2	inert	<0.1	6	inert	<0.1	5	inert	-	-	-	<0.1	17	inert	-	<2	inert	<0.1	19	inert	-	<2	inert
Mercury	-	<0.1	inert	-	<0.1	inert	-	<0.1	inert	-	-	-	<0.0010	0.3	inert	-	<0.1	inert	-	1.1	solid	-	<0.1	inert
Benzo(a)pyrene	<0.0005	0.6	inert	<0.0019	178	hazardous	<0.0005	1	inert	<0.0005	55	hazardous	<0.0005	6	solid	<0.0005	0.8	inert	<0.0005	339	hazardous	<0.0005	48.8	hazardous
Total PAH	-	11.6	inert	-	5301.9	hazardous	-	14.5	inert	-	690.2	industrial	-	61.3	inert	-	101.5	inert	-	4758.2	hazardous	-	728.8	industrial
TPH C 6 - C 9	-	<2	inert	-	189	inert	-	<2	inert	-	-	-	-	<2	inert	-	41	inert	-	<2	inert	-	10	inert
Total (C10-C36)	-	<250	inert	-	36140	industrial	-	<250	inert	-	-	-	-	1810	inert	-	1600	inert	-	234950	hazardous	-	7750	solid
Benzene	-	<0.2	inert	-	3	solid	-	<0.2	inert	-	-	-	-	<0.2	inert	-	<0.2	inert	-	<0.2	inert	-	<0.2	inert
Ethylbenzene	-	<0.2	inert	-	30.2	inert	-	<0.2	inert	-	-	-	-	<0.2	inert	-	6.9	inert	-	<0.2	inert	-	<0.2	inert
Toluene	-	<0.2	inert	-	4.4	inert	-	<0.2	inert	-	-	-	-	<0.2	inert	-	2.5	inert	-	<0.2	inert	-	<0.2	inert
Xylenes	-	<0.4	inert	-	165.8	solid	-	<0.4	inert	-	-	-	-	<0.4	inert	-	22.7	inert	-	<0.4	inert	-	<0.4	inert
Cyanide Total	-	<1	inert	-	23.3	inert	-	2.2	inert	-	-	-	-	-	-	-	-	-	-	27.1	inert	-	3.5	inert
Preliminary Waste Classification			solid			hazardous			inert			hazardous			industrial			inert			hazardous			hazardous
With NSW DEC General Approval (i.e. after treatment)			Not Applicable			industrial (total TPH exceeds solid)			Not Applicable			solid			Not Applicable			inert			solid			solid

Analyte	BHA1/7.0		Waste Classification	BHD/8.4		Waste Classification	BHF/6.5		Waste Classification
	TCLP	SCC		TCLP	SCC		TCLP	SCC	
Benzene	<0.001	1.6	inert	0.012	7.5	inert	0.001	0.8	inert
Toluene	<0.002	<0.2	inert	<0.002	0.9	inert	0.002	<0.2	inert
Ethylbenzene	<0.002	0.2	inert	<0.002	<0.2	inert	0.106	1.9	inert
Xylenes	<0.004	<0.4	inert	0.009	0.8	inert	0.648	9.8	inert
TPH (C6-C9)	-	-	-	-	-	-	0.6	22	inert
TPH C10 - C14	-	-	-	-	-	-	4.1	650	-
TPH C15 - C28	-	-	-	-	-	-	0.5	510	-
TPH C29 - C36	-	-	-	-	-	-	<0.05	100	-
Total (C10-C36)	-	-	-	-	-	-	-	1260	inert
Naphthalene	-	-	-	-	-	-	0.1018	99.8	-
Acenaphthylene	-	-	-	-	-	-	<0.0018	4.2	-
Acenaphthene	-	-	-	-	-	-	0.019	1.4	-
Fluorene	-	-	-	-	-	-	0.0299	4.8	-
Phenanthrene	-	-	-	-	-	-	0.0201	7.6	-
Anthracene	-	-	-	-	-	-	0.0044	2.4	-
Fluoranthene	-	-	-	-	-	-	0.0024	3.8	-
Pyrene	-	-	-	-	-	-	0.002	3.7	-
Benzo(a)anthracene	-	-	-	-	-	-	<0.0018	1.5	-
Chrysene	-	-	-	-	-	-	<0.0018	1.2	-
Benzo(b)fluoranthene	-	-	-	-	-	-	<0.0018	1.1	-
Benzo(k)fluoranthene	-	-	-	-	-	-	<0.0018	0.5	-
Benzo(a)pyrene	-	-	-	-	-	-	<0.0018	1.1	solid
Indeno(1,2,3-cd)pyrene	-	-	-	-	-	-	<0.0018	<0.5	-
Dibenz(a,h)anthracene	-	-	-	-	-	-	<0.0018	<0.5	-
Benzo(g,h,i)perylene	-	-	-	-	-	-	<0.0018	0.5	-
Total PAH	-	-	-	-	-	-	-	133.6	inert
Preliminary Waste Classification			inert			inert			solid
With NSW DEC General Approval (i.e. after treatment)			inert			inert			solid

Notes:
TCLP in µg/L
SCC in mg/kg

Table 14 - Neutral Leach Analytical Results

Analyte	ANZECC 2000	BHA1/7.0		BHD/8.4		BHF/8.5	
		Neutral	TCLP	Neutral	TCLP	Neutral	TCLP
Benzene	950	<0.001	<0.001	0.01	0.012	-	0.001
Toluene	-	<0.002	<0.002	<0.002	<0.002	-	0.002
Ethylbenzene	-	<0.002	<0.002	<0.002	<0.002	-	0.106
m+p Xylene	-	<0.002	<0.002	0.003	0.006	-	0.265
o xylene	350	<0.002	<0.002	0.002	0.003	-	0.383
TPH (C6-C9)	-	-	-	-	-	-	0.6
TPH C10 - C14	-	-	-	-	-	6.99	4.1
TPH C15 - C28	-	-	-	-	-	0.6	0.5
TPH C29 - C36	-	-	-	-	-	<0.05	<0.05
Naphthalene	16	-	-	-	-	3.13	0.1018
Acenaphthylene	-	-	-	-	-	0.0024	<0.0018
Acenaphthene	-	-	-	-	-	0.0135	0.019
Fluorene	-	-	-	-	-	0.0346	0.0299
Phenanthrene	-	-	-	-	-	0.0213	0.0201
Anthracene	-	-	-	-	-	0.0054	0.0044
Fluoranthene	-	-	-	-	-	0.0025	0.0024
Pyrene	-	-	-	-	-	0.0019	0.002
Benz(a)anthracene	-	-	-	-	-	0.001	<0.0018
Chrysene	-	-	-	-	-	0.001	<0.0018
Benzo(b)fluoranthene	-	-	-	-	-	0.001	<0.0018
Benzo(k)fluoranthene	-	-	-	-	-	0.001	<0.0018
Benzo(a)pyrene	-	-	-	-	-	0.0005	<0.0018
Indeno(1.2.3.cd)pyrene	-	-	-	-	-	0.001	<0.0018
Dibenz(a.h)anthracene	-	-	-	-	-	0.001	<0.0018
Benzo(g.h.i)perylene	-	-	-	-	-	0.001	<0.0018

Notes:

All values in µg/L

Table 15 - Surface Water Analytical Results

Analyte	Unit	LOR	ANZECC 2000 95%	W01 - MG04	W02 - Tar Well#1	W03 - Tar Well#2	W04 - RP	W05 (Sth GH brick annulus)	W06 (Sth GH bottom sample)
2,4-dimethylphenol	ug/L	1		-	-	-	3.8	<1	<1
Phenol	ug/L	1	320	-	-	-	<1	<1	63.5
Acenaphthene	ug/L	1		3.7	5	215	<1	<1	<1
Acenaphthylene	ug/L	1		<1	6.4	1450	2.7	<1	<1
Anthracene	ug/L	1		<1	2.1	482	1.4	<1	<1
Benz(a)anthracene	ug/L	1		<1	2	357	8.4	<1	<1
Benzo(a) pyrene	ug/L	0.5		<0.5	<1.9	277	9.9	<0.5	<0.5
Benzo(b)fluoranthene	ug/L	1		<1	2	259	11.6	<1	<1
Benzo(g,h,i)perylene	ug/L	1		<1	<1.9	124	8	<1	<1
Benzo(k)fluoranthene	ug/L	1		<1	<1.9	77.1	3.3	<1	<1
Chrysene	ug/L	1		<1	<1.9	288	7.1	<1	<1
Dibenz(a,h)anthracene	ug/L	1		<1	<1.9	33.6	2	<1	<1
Fluoranthene	ug/L	1		<1	3.1	622	16.1	<1	<1
Fluorene	ug/L	1		1.3	4.3	750	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	ug/L	1		<1	<1.9	97.9	5.6	<1	<1
Naphthalene	ug/L	1	16	38.5	230	20900	<1	<1	<1
Phenanthrene	ug/L	1		1.2	6.8	1520	1.5	<1	<1
Pyrene	ug/L	1		<1	3.7	651	23.6	<1	<1
Arsenic	ug/L	1		-	-	-	8	<1	1
Cadmium	ug/L	0.1	0.2	-	-	-	1	<0.1	1
Chromium	ug/L	1		-	-	-	7	<1	8
Copper	ug/L	1	1.4	-	-	-	43	<1	7
Lead	ug/L	1	3.4	-	-	-	87	3	107
Nickel	ug/L	1	11	-	-	-	16	<1	4
Zinc	ug/L	5	8	-	-	-	302	16	277
TPH C10 - C14 Fraction	ug/L	50		280	2670	153000	200	<50	420
TPH C15-C28 Fraction	ug/L	100		200	800	50800	900	<100	<100
TPH C29-C36 Fraction	ug/L	50		<50	<50	10600	460	<50	<50
TPH C 6 - C 9 Fraction	ug/L	20		40	100	7240	<20	<20	<20
Benzene	ug/L	1	950	12	<5	1360	<1	<1	<1
Ethylbenzene	ug/L	2		<2	<5	160	<2	<2	<2
m- & p-xylene	ug/L	2		7	37	1180	<2	<2	<2
o-xylene	ug/L	2	350	2	29	723	<2	<2	<2
Toluene	ug/L	2		<2	<5	1260	<2	<2	<2

Notes:

(-) refers to analyte not tested.

BOLD refers to exceeds guideline criteria

Table 16 - Statistical Analysis Results - Ash and Coke Gravels

Criteria	Contaminants of Concern - Concentrations in mg/kg	
	BaP 5	Benzene 1
	All Data	
No. Samples	57	45
Min	0.50	0.20
Max	339.00	4.20
Mean	31.18	0.24
Std Dev.	66.00	1.90
95%UCL	45.80	0.35
Distribution	neither	log-normal
	With Hotspots removed	With MG02/0.2m removed
No. Samples	42	44
Min	0.50	0.20
Max	16.00	1.60
Mean	4.80	0.30
Std Dev.	4.00	0.30
95%UCL	5.80	0.40
Distribution	normal	normal

Notes:

BOLD - Exceeds Investigation Criteria

Table 17 - Statistical Analysis Results - Reworked Clays

	Contaminants of Concern - Concentrations in mg/kg			
	BaP	Total PAH	Total C10-C36	Benzene
Criteria	5	100	1,000	1
	All Data			
No. of Samples	24	24	22	29
Min	0.50	0.60	250.00	0.20
Max	444.00	15,237.60	435,100.00	4.60
Mean	21.00	674.77	20,895.91	0.25
Std. Dev.	90.30	3,103.00	92,556.00	2.00
95%UCL	52.60	1,760.00	54,852.00	0.70
Distribution	neither	neither	neither	log-normal
	With Removal of Free Tar Hotspots			
No. of Samples	21	21	19	26
Min	0.50	0.60	250.00	0.50
Max	30.00	137.00	13,340.00	4.60
Mean	2.40	19.30	1,043.00	0.20
Std. Dev.	6.50	33.20	2,988.00	1.87
95%UCL	4.80	31.80	2,232.00	0.40
Distribution	neither	neither	neither	log-normal
	With Removal of BH06 Hotspot		With Removal of MG05 Hotspot	With Removal of BH14 Hotspot
No. of Samples	20	20	18	25
Min	0.50	0.60	250.00	0.20
Max	6.40	89.50	1,150.00	0.40
Mean	0.70	13.40	360.00	0.20
Std. Dev.	2.00	19.90	259.00	0.04
95%UCL	1.25	no exceeds	466.00	0.20
Distribution	log-normal		normal	normal

Notes:

BOLD - Exceeds Investigation Criteria

Table 18 - Statistical Analysis Results - Silty Clays

	Contaminants of Concern - Concentrations in mg/kg		
	BaP	Total PAH	Benzene
Criteria	5	100	1
	All Data		
No. of Samples	12	12	13
Min	0.50	3.60	0.20
Max	178.00	5,301.90	4.00
Mean	19.03	588.58	0.73
Std. Dev.	50.60	1,519.00	1.20
95%UCL	45.20	1,376.00	1.40
Distribution	neither	neither	neither
	With Removal of Free Tar Hotspots		
No. of Samples	9	9	10
Min	0.50	3.60	0.20
Max	7.00	99.30	4.00
Mean	1.90	33.00	0.60
Std. Dev.	2.50	39.70	1.20
95%UCL	3.50	no exceeds	1.30
Distribution	neither		neither
Silty Clays	Remove all elevated concentrations at BH08		Remove MW04 Hotspot
No. of Samples	7		9
Min	0.50		0.20
Max	2.10		0.40
Mean	0.70		0.20
Std. Dev.	0.60		0.10
95%UCL	1.20		0.30
Distribution	normal		normal

Notes:

BOLD - Exceeds Investigation Criteria

Table 19 - Statistical Analysis Results - Gravel, Sand & Demolition Wastes

	Contaminants of Concern - Concentrations in mg/kg		
	BaP	Total C10-C36	Benzene
Criteria	5	1,000	1
	All Data		
No. of Samples	14	12	18
Min	0.40	250.00	0.20
Max	150.00	9,390.00	15.00
Mean	18.26	1,605.67	1.20
Std. Dev.	41.70	2,614.00	3.50
95%UCL	38.00	2,961.00	2.60
Distribution	neither	neither	neither
	With Removal of Ashy Hotspots		
No. of Samples	12	11	16
Min	0.40	250.00	0.20
Max	10.40	2,750.00	0.20
Mean	3.20	898.00	0.20
Std. Dev.	3.80	953.00	0.00
95%UCL	5.20	1,419.00	0.20
Distribution	normal	normal	normal

Notes:

BOLD - Exceeds Investigation Criteria

Table 20 - Statistical Analysis Results - Sands and Gravels

	Contaminants of Concern - Concentrations in mg/kg		
	BaP	Total C10-C36	Benzene
Criteria	5	1,000	1
	All Data		
No. of Samples	13	8	12
Min	0.50	250.00	0.20
Max	48.80	7,750.00	7.00
Mean	10.21	2,267.50	1.09
Std. Dev.	16.90	3,368.00	2.00
95%UCL	18.60	4,524.00	2.15
Distribution	neither	neither	neither
	With Removal of Free Tar Hotspots		
No. of Samples	10	6	9
Min	0.50	250.00	0.20
Max	6.90	1,280.00	1.20
Mean	1.70	458.00	0.30
Std. Dev.	2.40	412.00	0.30
95%UCL	3.00	797.00	0.50
Distribution	neither	normal	normal
	Remove all TP16 material		
No. of Samples	9		
Min	0.50		
Max	5.40		
Mean	1.00		
Std. Dev.	2.20		
95%UCL	2.00		
Distribution	log-normal		

Notes:

BOLD - Exceeds Investigation Criteria

Table 21 - Statistical Analysis Results - Gravel, Sand & Clay with Minor As

	Contaminants of Concern - Concentrations in mg/kg		
	BaP	Total PAH	Total C10-C36
Criteria	5	100	1,000
	All Data		
No. of Samples	15	15	14
Min	0.50	0.90	50.00
Max	34.90	346.00	6,444.00
Mean	4.37	45.15	799.57
Std. Dev.	9.10	89.00	1,674.00
95%UCL	8.50	85.60	1,591.00
Distribution	neither	neither	neither
	With Removal of Hotspots at MW13s & RP		
No. of Samples	13	13	12
Min	0.50	0.50	50.00
Max	7.70	68.20	470.00
Mean	0.80	16.40	251.00
Std. Dev.	2.40	18.80	90.00
95%UCL	2.30	25.70	298.00
Distribution	log-normal	normal	normal

Notes:

BOLD - Exceeds Investigation Criteria

Table 22 - Statistical Analysis Results - Red and Grey Clays

	Contaminants of Concern - Concentrations in mg/kg				
	BaP	Total PAH	TPH (C6-C9)	Total C10-C36	Benzene
Criteria	5	100	65	1,000	1
	All Data				
No. of Samples	24	24	22	22	23
Min	0.50	0.70	2.00	250.00	0.20
Max	13.90	515.60	228.00	5,350.00	20.00
Mean	2.16	85.38	35.09	1,003.18	1.41
Std. Dev.	3.70	143.00	57.00	1,422.00	4.10
95%UCL	3.50	135.00	56.00	1,525.00	2.90
Distribution	neither	neither	neither	neither	neither
	With Removal of Free Tar Hotspots				
No. of Samples	19	19	17		18
Min	0.50	0.70	2.00		0.20
Max	8.40	288.50	118.00		1.10
Mean	0.70	48.00	18.00		0.30
Std. Dev.	2.40	88.00	35.50		0.30
95%UCL	1.80	83.00	33.10		0.40
Distribution	log-normal	neither	neither		normal
		Remove MG05 Hotspot	Remove all MG05		
No. of Samples		18	15	15	
Min		0.70	2.00	250.00	
Max		224.40	56.00	4,070.00	
Mean		34.60	3.10	323.00	
Std. Dev.		68.00	2.50	2.12	
95%UCL		62.00	9.20	692.00	
Distribution		neither	log-normal	log-normal	
		Remove Exceedances at BH12 & MG10A & all at MGO5			
No. of Samples		14			
Min		0.70			
Max		8.00			
Mean		5.90			
Std. Dev.		3.20			
95%UCL		7.40			
Distribution		normal			

Notes:

BOLD - Exceeds Investigation Criteria

Table 23 - Statistical Analysis Results - Weathered Shales

	Contaminants of Concern - Concentrations in mg/kg		
	BaP	Total PAH	Benzene
Criteria	5	100	1
	All Data		
No. of Samples	25	25	25
Min	0.50	8.00	0.20
Max	17.60	1,906.40	7.50
Mean	0.60	96.25	1.30
Std. Dev.	2.10	395.00	2.00
95%UCL	1.20	238.00	2.00
Distribution	log-normal	neither	neither
	With Removal of Free Tar Hotspots		With Removal of Free Tar & all BHD Hotspots
No. of Samples		17	17
Min		8.00	0.20
Max		12.30	2.00
Mean		8.30	0.60
Std. Dev.		1.00	0.60
95%UCL		8.70	0.90
Distribution		normal	normal
			Remove elevated conc at BHA1 & BHB
No. of Samples			14
Min			0.20
Max			1.60
Mean			0.40
Std. Dev.			0.40
95%UCL			0.60
Distribution			normal

Notes:

BOLD - Exceeds Investigation Criteria



Photo 1 Main Site area facing southwest showing general ground surface. Existing Gasholder structure in the background.

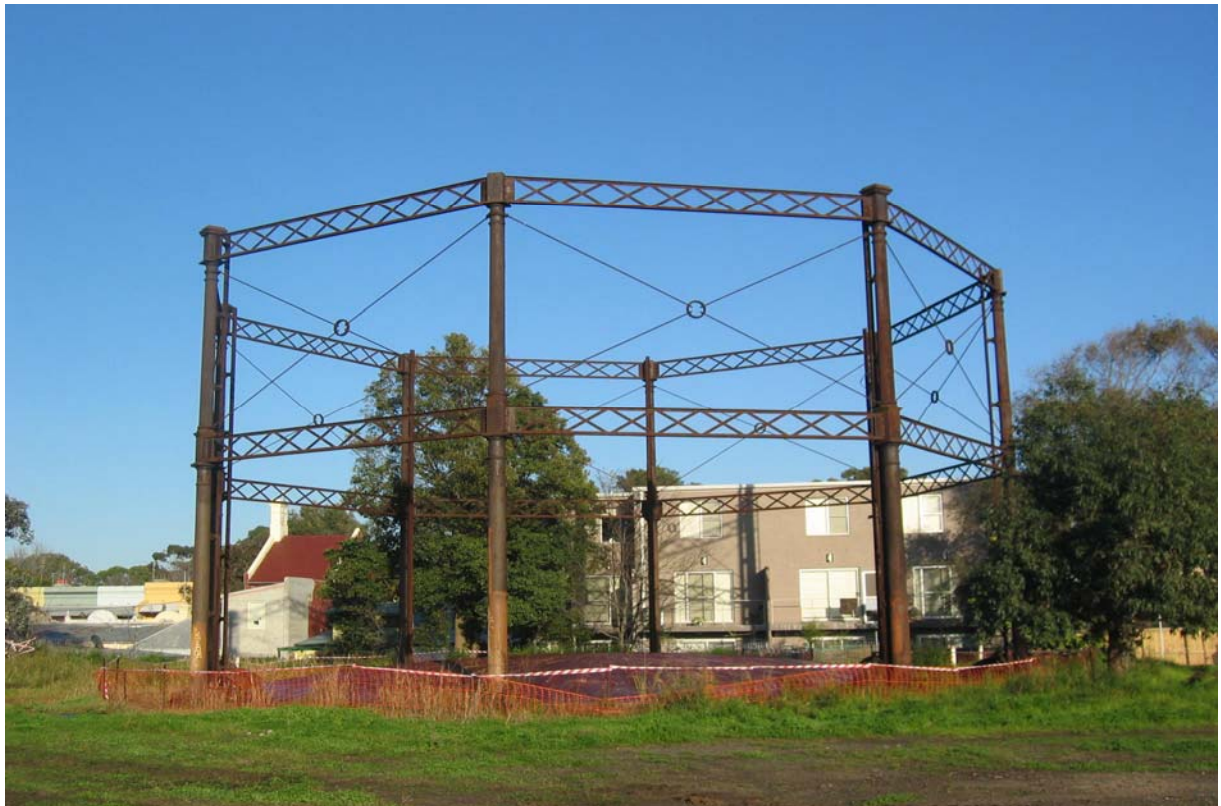


Photo 2 Southern Gasholder facing west. Residential properties behind.



Photo 3 Tar Well concrete lids facing west with Retaining Wall/Embankment behind. Adjoining RailCorp site in the background, with demountable sheds.



Photo 4 Western boundary facing south showing the fill embankment down to adjoining residential properties and open drain along the boundary.



Photo 5 Retaining Wall/Embankment facing east showing adjoining RailCorp site (left) and overgrown grasses and shrubs along the length of this area.



Photo 6 Uncovered brick annulus of the Northern Gasholder.



Photo 7 Exposed brick annulus of the Northern Gasholder at sample location MG05. Tar seeping from brickwork.



Photo 8 Demolition Waste fill material inside annulus of the Northern Gasholder.



Photo 9 Shallow water inside annulus of the Northern Gasholder. On the right of pit is the metal-lined brick work.



Photo 10 Sample collected at BHC at 6.0mbgl showing free tar and brick material.



Photo 11 Facing west toward sample location BHA angled bore.



Photo 12 Tar Well #1 concrete lid removed and showing water contents.